



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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नई दिल्ली, शनिवार, जनवरी 19, 1991 (पौष 29, 1912)  
NEW DELHI, SATURDAY, JANUARY 19, 1991 (PAUSA 29, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 19th January, 1991

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Patent Office Branch,  
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Telegraphic address "PATENTOFIC".

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Bldg.,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagdish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :—** The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

एकस्य तथा अभिकल्प

कलकत्ता, दिनांक 19 जनवरी 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी ह्यूस्टेट,  
तीसरा तल, लोअर परेल (पश्चिम),  
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—“पेटोफिस”

पेटेंट कार्यालय शाखा,  
इकाई सं० 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक”

पेटेंट कार्यालय शाखा,  
61, बालासाह रोड,  
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिक्ॉय तथा एमिनिदिवि द्वीप।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
मवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020

भारत का अपशेष क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य घनादेश अथवा डाक आवेद या जहाँ उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है।

## CORRIGENDA

In the notification published in Part III, Section 2 of the Gazette of India, No. 15 dated April 14, 1990, in page 393, under heading “Complete Specification Accepted” in respect of Patent No. 166324, the following amendment shall be incorporated:—

For

“Applicant: CENTRO SPERIMENTALE METALLURGICO  
S.p.A., of VIA DI CASTEL ROMANO,  
00129, ROMA, ITALY”.

READ

“Applicant: CENTRO SVILUPPO MATERIALI S.p.A.,  
of VIA DI CASTEL ROMANO, 00129,  
ROMA, ITALY”.

In the Gazette of India, Part III, Section 2, dated the 7th January, 1989 :—

(1) in Page No. 2, under the heading ‘APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE’ for No. 985/Cal/88 read [Divisional dated 19th July, 1985] instead of [19-7-1985]

(2) in Page No. 4, under the heading ‘RENEWAL FEES PAID’:—

(i) Read 151667 instead of 152267  
and

(ii) Read 153640 instead of 143640

(3) in Page No. 10, in respect of No. 164062, in the Column of CLASS read 143D<sup>2</sup> as 143D<sub>2</sub>;

(4) in Page No. 12, in respect of No. 164068, in the Column of Ind. Cl. insert ; instead of — between 57D & 76I;

(5) in Page No. 17, in respect of No. 164079, in the Inventor's Name, read ‘WOLFGANG SEDLICH’ instead of ‘WOLFGANG WEDLICH’ for Inventor No. 4.

## THE PATENT OFFICE

Calcutta, the 19th January, 1991

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE  
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

13th December, 1990

1026/Cal/90 Metallgesellschaft Aktiengesellschaft. Process of desulfurizing a Gas mixture which contains H<sub>2</sub>S, COS and CO<sub>2</sub> and scrubbing solution for use in that process.

1027/Cal/90 Metallgesellschaft Aktiengesellschaft. Fluidized bed reactor.

1028/Cal/90 Quickwheel Holdings B.V. Wheel trolley.

*14th December, 1990*

1029/Cal/90 Sri Salil Kumar Sil. Tidal energy-based power generator.

1030/Cal/90 Sri Salil Kumar Sil. Tidal energy-based power generator.

1031/Cal/90 Richard A. Lang. An audio-video transceiver apparatus, including compression means.

1032/Cal/90 Mcneil-Ppc, Inc. Dual subcoated simulated capsule-like medicament.

1033/Cal/90 National Research Council of Canada. Improved meningococcal Polysaccharide conjugate vaccine.

*17th December, 1990*

1034/Cal/90 Hitachi, Ltd. Gas circuit breaker.

1035/Cal/90 E.I. Du Pont De Nemours and Company. Compositions and process for use in refrigeration.

*18th December, 1990*

1036/Cal/90 Mr. Anup Kumar Rai. Single phase coal washing process for processing of quarry overburden and washing of low grade coal.

1037/Cal/90 Genpharm International. Production of recombinant polypeptides by bovine species and transgenic method.

1038/Cal/90 E.I. Du Pont De Nemours and Company. High-boiling hydrochlorofluorocarbon solvent blends.

1039/Cal/90 Vasily Vasilievich Shkondin. Independent-drive wheel for a wheel-mounted vehicle.

1040/Cal/90 Sun Xluai. Improved method for rice food.

1041/Cal/90 Marutirao Y. Sarode. A groundnut separator.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH AT TODI ESTATE, IIIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13

*20th November, 1990*

298/Bom/90 (1) Balwant Singh & (2) Novel Massy. Aero-electronical engine.

299/Bom/90 Titoo Arora., C/o. M/S. Super Plastic. An improved device for fuel saver.

*21st November, 1990*

300/Bom/90 Hindustan Lever Limited 24th Nov. 1989, Gr. Britain. Detergent Bar Composition.

301/Bom/90 Hindustan Lever Limited 24th Nov. 1989, Gr. Britain. Detergent compositions.

302/Bom/90 Charles Feeney. Heating of bearings and the like.

303/Bom/90 Vasant Pandurang Koparde. A foot-valve.

*23rd November, 1990*

304/Bom/90 Hindustan Lever Limited. Removal of metal soaps from hydrogenated fatty products.

305/Bom/90 Hindustan Lever Limited 24th Nov. 1989, Gr. Britain. Cleaning composition.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61 WALLAJAH ROAD, MADRAS-600 002

*19th November, 1990*

927/Mas/90 WIDIA (INDIA) LTD. AN IMPROVED BUTTON BIT FOR DRILLING APPLICATION.

928/Mas/90 Pont-A-Mousson S A. Composite gasket for the locked assembly of spigot and socket pipes.

*20th November, 1990*

929/Mas/90 Dr. P.R. Krishnamoorthy. New Aluminium Conductors for Coastal Application, a method for the preparation of same and an apparatus therefor.

930/Mas/90 Sree Chitra Tirunal Institute for Medical Sciences & Technology. Improved Migration Resistant Plasticized poly vinyl chloride and process for the preparation of same.

931/Mas/90 Zellweger Uster Ag. Apparatus for drawing in warp threads.

932/Mas/90 NGAI SHING DEVELOPMENT LIMITED. PRESS. (December 22nd, 1989; UK).

*21st November, 1990*

933/Mas/90 ASTRA RESEARCH CENTRE INDIA. A NOVEL PHASMID VECTOR IN *E. COLI*.

934/Mas/90 K. SHIVASHANKAR. A LANGUAGE STENCIL.

935/Mas/90 Hoechst Aktiengesellschaft. Use of complex ligands for ions in ferroelectric liquid-crystal mixtures.

*22nd November, 1990*

936/Mas/90 Central Power Research Institute. A PROCESS FOR THE MANUFACTURE OF FLY ASH BASED CERAMIC WALL TILES.

937/Mas/90 Central Power Research Institute. A PROCESS FOR THE MANUFACTURE OF FLY ASH BASED CERAMIC FLOOR TILES.

938/Mas/90 Central Power Research Institute. A PROCESS FOR THE MANUFACTURE OF FLY ASH BASED CERAMIC ACID RESISTANT BRICKS/TILES.

939/Mas/90 MASCHINENFABRIK RIETER AG. METHOD AND APPARATUS FOR PRODUCING UNTWISTED YARN FROM AT LEAST TWO FIBRIL BUNDLES POSITIONED CONSTANTLY RELATIVE TO ONE ANOTHER.

940/Mas/90 MASCHINENFABRIK RIETER AG. A method of changing the lap roll in at least one combing head of a combing machine.

941/Mas/90 MASCHINENFABRIK RIETER AG. A TEXTILE MACHINE.

942/Mas/90 USINOR SACILOR. Installation for the continuous casting of thin metal products between two rolls.

943/Mas/90 ORSZAGOS "FREDERIC JOLIOT-CURIE" SUGARBIOLÓGIAI ÉS SUGAREGESZSEGÜGYI KUTATÓ INTÉZET. 1, 4, 10, 13-TETRAOXA-7, 16-DIAZACY-CLOCTADECANE DERIVATIVES, PHARMACEUTICAL COMPOSITIONS CONTAINING THEM AND THEIR USE FOR THE REMOVAL OF TOXIC METAL IONS AND RADIOACTIVE ISOTOPES FROM THE LIVING ORGANISM.

944/Mas/90 Elkem Metals Company. A method for making inoculant for cast or ductile iron. (Divisional to Patent Application No. 35/Mas/87).

945/Mas/90 BANK TAYLOR HOSSON LIMITED. Apparatus for carrying out an operation on an object. (February 25th, 1986; U.K.) (Divisional to Patent Application No. 104/Mas/87).

*23rd November, 1990*

946/Mas/90 ATOCHEM. SYNTHESIS OF PERFLUORO-ALKYL BROMIDES.

947/Mas/90 Demetrio Leone. Underpants with an insert.

948/Mas/90 Henkel Kommanditgesellschaft auf Aktien. Processes for preparing reactive silicon dioxide phase.

949/Mas/90 Henkel Kommanditgesellschaft auf Aktien. Processes for preparing alkali metal silicates.

950/Mas/90 EGIS Gyógyszergyár. TRIAZOLYL THIOAMIDE DERIVATIVES.

*26th November, 1990*

951/Mas/90 Enricerche S p A and Enimont Augusta S p A. Process for purifying paraffin sulphonic acids.

952/Mas/90 Cargill, Incorporated. Animal feed block composition.

953/Mas/90 Minnesota Mining and Manufacturing Company. Disposable diaper having fastening means that are degradable.

954/Mas/90 Diebold Incorporated. Sheet handling apparatus.

955/Mas/90 A. Lakshminarayana. Cooking gas stove.

*27th November, 1990*

956/Mas/90 Tecnomatera S.r.l. A method for the production of composite panels based on ornamental stone or an equivalent material.

957/Mas/90 Societe des Produits Nestle S.A. Extrusion die assembly.

958/Mas/90 Glaxo Group Limited. Device. (November 28, 1989; United Kingdom)

959/Mas/90 Sedepru. Pair of hooks for the reinforcement of manufacturing apparatus, and apparatus comprising such pair of hooks.

960/Mas/90 Himont Incorporated. Graft copolymer compositions

961/Mas/90 Dr. Kalappattil Krishnankutty. Method of making surgical atraumatic needle sutures and the needle sutures made thereby.

*28th November, 1990*

962/Mas/90 Palaniyandi Kathirvelu. Improvements in or relating to a chair.

963/Mas/90 Ireco Incorporated. Shock-Resistant, low density emulsion explosive.

*29th November, 1990*

964/Mas/90 Lt. Col. Peri Subramany (Retd.). Roof top power operated retractable rain shield for automobiles and moving vehicles.

965/Mas/90 Ampex Corporation. Solid state scanning transducer that utilizes low flux densities.

966/Mas/90 Societe Des Produits Nestle S.A. A method for preparing dry carbonating agent. (Divisional to Patent Application No. 111/Mas/87).

967/Mas/90 Maschinenfabrik Rieter AG. A chuck for a winding. (Divisional to Patent Application No. 691/Mas/87).

*30th November, 1990*

968/Mas/90 Lucas-TVS Ltd. A reed relay.

969/Mas/90 Ammonia Casale S.A. and Umberto Zardi. Process for the modernization of existing urea plants, and plants so obtained with increased yields and flexibility, and reduced energy consumption and corrosion.

970/Mas/90 Pains Wessex Limited. Minefield Breaching System.  
(December 4, 1989; Great Britain).

971/Mas/90 Focke & CO. (GmbH & Co.). Hinge Lid Pack, especially for cigarettes.

## RENEWAL FEES PAID

146770 147766 148388 148509 148569 148665 148710 149040 149082  
149306 149386 149480 149493 149758 149759 149971 150580 150596  
150864 151132 151133 151158 151717 151909 151996 152006 152304  
152316 152318 152414 152419 152477 152480 152636 152873 153696  
153732 153829 154235 154296 154339 154408 154509 154518 154981  
155296 155486 155604 155621 155938 155958 155975 156073 156127  
156150 156335 156377 156383 156385 156839 156847 157021 157073  
157194 157365 157451 157718 157847 157924 157925 157927 157970  
157984 157998 158115 158186 158239 158258 158303 158334 158348  
158350 158373 158416 158429 158490 158545 158567 158654 158932  
158936 159025 159172 159175 159239 159270 159337 159339 159385  
159398 159500 159517 159527 159607 159727 159747 159774 159799  
159827 159907 160327 160341 160555 160659 160793 160907 160927  
160935 160977 161113 161151 161157 161208 161209 161214 161293  
161294 161295 161323 161324 161331 161345 161492 161524 161525  
161578 161626 161643 161701 161705 161717 161842 161844 161879  
161913 161965 161966 162238 162239 162288 162309 162312 162361  
162397 162479 162564 162606 162643 162711 162768 162765 162774  
162777 162814 162833 162834 162835 162836 162959 162986 163004  
163086 163123 163130 163134 163140 163149 163289 163294 163327  
163341 163343 163363 163403 163427 163428 163483 163487 163517  
163556 163566 163571 163584 163601 163602 163604 163614 163670  
163671 163824 163844 163913 163914 163990 164001 164004 164105  
164345 164338 164385 164751 164756 164758 164801 164811 164849  
165123 165239 165240 165282 165349 165486 165593 165596 165638  
165655 165660 165664 165668 165705 165743 165785 165817 165824  
165926 166031 166088 166123 166124 166194 166294 166328 166363  
166409.

## OPPOSITION PROCEEDINGS

(1)

An Opposition has been entered by Vikram Forgings & Allied Industries Private Limited to the grant of a patent on Application No. 166748 made by Trade & Industry Private Limited.

(2)

An Opposition has been entered by Vikram Forgings & Allied Industries Private Limited to the grant of a patent on Application No. 166717 made by Trade & Industry Private Limited.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by Babcock & Wilcox Tracy Power Inc. under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 167694 in their name has been allowed.

(2)

The claim made by Babcock & Wilcox Tracy Power Inc. under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 167568 in their name has been allowed.

(3)

The claim made by Babcock & Wilcox Tracy Power Inc. under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 167378 in their name has been allowed.

(4)

The claim made by International Control Automation Finance S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 167724 in their name has been allowed.

## PATENTS SEALED

159220 164745 164804 166196 166298 166318 166411 166412 166413  
166414 166415 166416 166417 166418 166423 166431 166432 166433  
166434 166435 166436 166438 166439 166440 166441 166451 166452  
166453 166454 166455 166456 166457 166467 166468 166470 166488  
166491 166534 166536.

CAL— 8

DEL—28

MAS— 3

BOM—NIL

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्थ को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी निम्नलिखित, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 30 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाए तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 158 E<sub>2</sub> [LI(2)].  
Int. Cl.<sup>4</sup> : B61F 5/04.

167971

#### TRUCK FOR RAIL VEHICLE.

Applicant : URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD., OF 2ST. CLAIR AVENUE WEST, TORONTO, ONTARIO, CANADA M4V 1L7, A CORPORATION ORGANISED UNDER THE LAWS OF CANADA.

Inventor : ROY EDWARD SMITH.

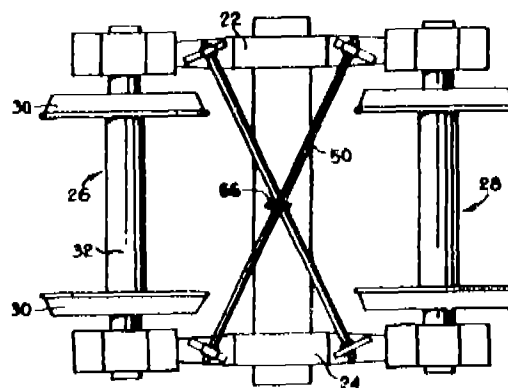
Application for Patent No. 534/Del/85, filed on 8th July, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

13 Claims

A truck (20) for rail vehicle comprising a truck frame including a pair of laterally spaced side frames (22, 24) connecting means (38) to connect said truck to a vehicle body, a pair of wheelsets (26, 28) extending between said side frames at opposite ends thereof and

supported for rotation about a horizontal transverse axis, first resilient (34, 36) means interposed between said wheelsets and respective ones of said side frames to provide flexibility between said frame and said wheelset to permit controlled movement of said wheelsets from a mutually parallel position, thereby determining stiffness of said truck, and bracing means independent of said connecting means, said bracing means extending between said side frames, a pair of struts (50) connected at opposite ends to said side frames and inclined to the longitudinal axis of said truck and second resilient means (48) associated with said truck and deformable upon relative longitudinal movement between said frames.



Compl. Specn. 13 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 32 E.  
Int. Cl.<sup>4</sup> : C 08 F 2/14.

167972

#### SILOXANE CONTAINING NETWORK POLYMER.

Applicants : THE GOODYEAR TIRE & RUBBER COMPANY A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, HAVING OUR PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET-STREET, AKRON OHIO 44316-0001, UNITED STATES OF AMERICA.

Inventors : ADEL FARHAN HALASA & GEORGE JALICS.

Application for Patent No. 584/Del/1986, filed on 2nd July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

15 Claims

A process for preparing a network polymer containing siloxane linkages by endlinking a metal terminated polymer comprising :

- (a) reacting a metal terminated polymer of the general formula P-M wherein P represents a polymer chain and N represents a metal of group I or II of the Periodic Table with a molar excess of a halogenated silicon containing compound of the kind such as herein described wherein the halogenated silicon containing compound contains at least two halogen atoms which are bonded directly to a silicon atom, to produce a polymer which is terminated with halogenated silicon moieties wherein the halogenated silicon moieties contain at least one halogen atom which is bonded directly to a silicon atom;

- (b) reacting the polymer which is terminated with halogenated silicon moieties with a molar excess of a tertiary alcohol of the kind such as herein defined to produce a polymer which is terminated with hydroxy silyl moieties; and

- (c) endlinking the polymer which is terminated with the hydroxy silyl moieties by subjecting it to a temperature of the from 10°C to 150°C to produce a network polymer containing siloxane linkages.

Compl. Specn. 21 Pages.

Drgs. Nil.

Ind. Cl. : 155B & 73.  
Int. Cl.<sup>4</sup> : D06M 15/00.

167973

A NEW RESIN FINISHING PROCESS, USING MIXED CATALYST SYSTEM FOR THE PRODUCTION OF DURABLE PRESS FABRICS.

Applicant : THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH, KRISHI BHAVAN, NEW DELHI-110001, A SOCIETY REGISTERED IN INDIA UNDER THE SOCIETIES REGISTRATION ACT, 1860 (21 OF 1860).

Inventors : SHRI NATH PANDEY & CHARULATA RAJE.

Application for Patent No. 739/Del/86, filed on 18th August, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 5 Claims

A mixed catalyst resin finishing process for the production of Durable Press cotton fabrics, comprising of impregnating the fabric with a bath solution containing 10% Dimethylol dihydroxy ethylene urea, 0.34% to 0.5% aluminium sulfate, 0.12% to 0.13% zinc acetate, 0.04% to 1.00% glycolic acid, 2% non-ionic polyethylene emulsion softener and 0.1% an ionic alkyl aryl sulfonate wetting agent, on a laboratory padding mangle to wet pick up of 80%, drying in an oven at 60°C for 7 minutes curing at 160°C for 3 minutes, washing to remove unreacted resin and finally air drying.

Compl. Specn. 11 Pages.

Drgs. Nil.

Ind. Cl. : 32 B & 40B.  
Int. Cl.<sup>4</sup> : B01J 21/00.

167974

#### HYDROCARBON CONVERSION PROCESS.

Applicant : UOP INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL OFFICE LOCATED AT 10UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS DES PLAINS, ILLINOIS-60016, U.S.A.

Inventors : SUSAN LEE LAMBERT, RANDY JOE LAWSON, RUSSELL WARD JOHNSON & JEAN PIERRE GILSON.

Application for the Patent No. 823/Del/86, filed on 18th September, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 11 Claims

A hydrocarbon conversion process which comprises contacting at hydrocarbon conversion conditions (such as herein described), a hydrocarbon charge stock with a catalytic comprising a combination of nonacidic zeolite, catalytically effective amounts of a Group VIII metal component, and a silica support matrix derived by a high PH gelation of an alkali metal silicate sol.

Compl. Specn. 31 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32 E.  
Int. Cl.<sup>4</sup> : B29D-7/01.

167975

A PROCESS FOR THE PREPARATION OF POLYESTER FILM CONTAINING IMMOBILISED PROTIEN.

Applicants : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor : MANJU SARKAR.

Application for Patent No. 906/Del/1986, filed on 14th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 9 Claims

A process for the preparation of polyester film containing immobilised protein which comprises hydrolysing a polyester film made of a polymer a glycerol and terephthalic acid partially, using mineral acid, subjecting the partially hydrolysed film to iodate oxidation coupling the said film with a protein.

Compl. Specn. 5 Pages.

Drg. Nil.

Ind. Cl. : 32 B IX (1).  
Int. Cl.<sup>4</sup> : C07 C2/00, 15/02, 04, 06, 08.

167976

DEHYDROCYCLODIMERIZATION PROCESS FOR PRODUCING AROMATIC HYDROCARBONS CONTAINING BENZENE, TOLUENE AND XYLENES.

Applicant : UOP INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL OFFICE LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS-60016, U.S.A.

Inventor : ROBERT HUGH JENSEN.

Application for the Patent No. 1126/Del/86, filed on 22nd December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

## 3 Claims

A dehydrocyclodimerization process to obtain aromatic hydrocarbons comprising benzene, toluene and xylenes wherein a vapor phase feedstream comprising a C<sub>2</sub>-C<sub>3</sub> aliphatic hydrocarbon is passed into a catalytic reaction zone containing a known solid catalyst, said aromatic hydrocarbons being recovered from the reaction zone effluent stream in a known manner characterised by recycling the recovered benzene and/or toluene into the reaction zone to increase the production of xylenes relative to the production of benzene and toluene.

Compl. Specn. 19 Pages.

Drg. 1 Sheet.

Ind. Cl. : 140 A2 [XI (2)],  
Int. Cl.<sup>4</sup> : C10M 125/00.

167977

# LUBRICANT COMPOSITION CONTAINING TRANSITION METALS FOR VISCOSITY CONTROL.

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKELAND BLVD. WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventor : DAVID EUGENE RIPPLE.

Application for Patent No. 22/Del/87, filed on 13th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

## 17 Claims

A lubricant composition comprising an oil of lubricating viscosity such as herein described, a dispersant such as herein described, and an oil soluble or oil-dispersible metallic compound in an amount sufficient to retard soot related viscosity rate increase of the oil when utilized in a diesel engine wherein the metallic compound contains a metal selected from the group consisting of manganese, titanium, cobalt, copper, vanadium, nickel, tungsten, molybdenum, molybdenum and chromium, and mixtures thereof, the said oil is being present from 75% to 99.5% by weight of the composition and said metallic compound is being present as the metal at 30 ppm to 500 ppm of the composition.

Compl. Specn. 33 Pages.

Drg. 1 Sheet.

Ind. Cl. : 84B.  
Int. Cl. : C10 L1/00.

167978

# CONTINUOUS PROCESS FOR PRODUCTION OF DIESEL RANGE FUEL.

Applicant : THE M.W. KELLOGG COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF THREE GREENWAY PLAZA, HOUSTON, TEXAS 77046-0395, UNITED STATES OF AMERICA.

Inventors : DANIEL DEE EZERNACK, ROBERT BRYAN ARMSTRONG.

Application for Patent No. 149/Del/87, filed on 19th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5

## 5 Claims

A continuous process for production of diesel fuel which comprises :

- (a) heating virgin hydrocarbon oil having a Conradson carbon content below 2 weight percent and boiling above 345°C to incipient cracking conditions and introducing the resulting heated oil to a back-mixed, soaking zone having a vapor zone and a liquid zone, a temperature between 385°C and 440°C, and a vapor zone pressure between 1.33 and 3.84 kg/cm<sup>2</sup> abs.;
- (b) cracking the heated oil in the liquid zone without adding hydrogen to a diesel-rich, overhead vapor portion and a heavy oil liquid portion while soaking the liquid portion in the soaking zone for an average residence time equivalent to between 1 and 4 hours based on fresh feed and maintaining the overhead vapor portion in the soaking zone for a residence time less than 1 minute;
- (c) introducing all of the diesel-rich, overhead vapor portion directly to an intermediate point of a fractionation zone and fractionating the vapor portion;
- (d) recovering a diesel range fuel product from the fractionation zone; and
- (e) recovering the heavy oil liquid portion from the soaking zone.

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 28 C.  
Int. Cl.<sup>4</sup> : F23D 14/58 & 21/00.

167979

# MULTI-OUTLET BURNER PARTICULARLY FOR MELTING GLASS.

Applicant : PPG INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF ONE PPG PLACE, PITTSBURGH 22, STATE OF PENNSYLVANIA, U.S.A.

Inventor : YIH-WAN TSAI.

Application for Patent No. 171/Del/87, filed on 26th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

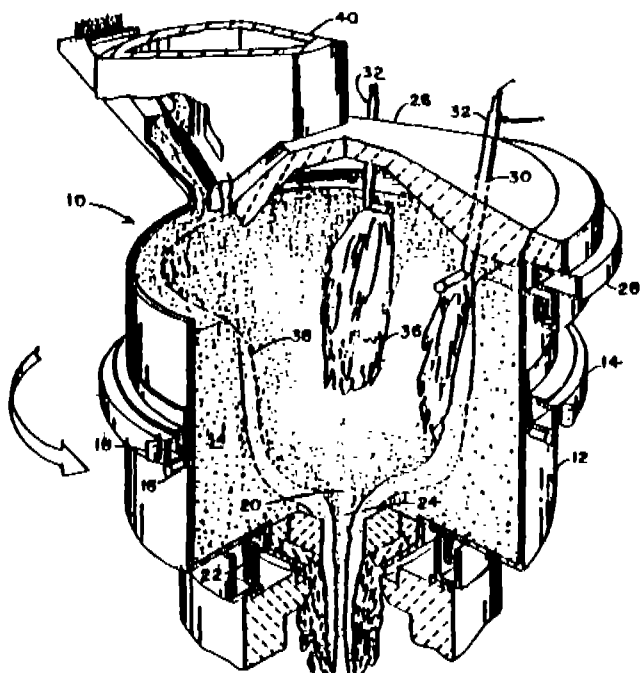
## 8 Claims

A multi-outlet burner particularly for melting glass which comprises :

- at least a first longitudinally extending fuel bearing conduit provided with a plurality of openings spaced along its length;

at least a second longitudinally extending conduit bearing oxygen containing gas to support combustion, said conduit being provided with a plurality of openings spaced along its length, said first and second conduits being located with respect to each other such that each of the openings of the second oxygen gas bearing conduit is proximate a corresponding opening of said first fuel bearing conduit; and

a plurality of mixing chambers being provided along the length of said conduits, mixing chambers being provided for pairs of proximate openings of said first and second conduits whereby the fuel and gas existing from openings mix and combine in said chambers.



Compl. Specn 17 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 32 F.3.C. [IX(1)], 55 E. 2. [XIX (1)], 55 E. 4. 167980  
Int. Cl. : C07G 11/00.

#### PROCESS FOR PRODUCTION OF AVERMECTINS.

Applicant : PRIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : EDMUND WILLIAM HAFNER, KELVIN SCOTT HOLDOM & SHIH-JEN EDWARD LEE.

Application for Patent No. 1059/Del/87, filed on 10th December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

8 Claims

A process for preparation of an avermectin which comprises aerobically fermenting with a strain of streptomyces avermitilis which lacks one or both of branched-chain 2-oxo acid dehydrogenase activity and branched-chain 2-oxo acid dehydrogenase activity and branched-chain amino acid transaminase activity, an aqueous nutrient medium comprising an assimilable source such as herein described of nitrogen, carbon and inorganic salts and a compound of the formula  $R-COOH$  wherein R is an alpha-branched-chain group such as herein defined the carbon atom thereof which is attached the  $-COOH$  group is also attached to at least two other atoms or groups other than hydrogen.

Compl. Specn. 72 Pages.

Drgs. 4 Sheets.

CLASS : 55-F. 167981  
Int. Cl. : A 61 b 10/00; C 12 n 15/00.

#### A PROCESS FOR THE PREPARATION OF A MOLECULAR PROBE FOR DNA SPECIFIC FOR THE MALE GENOME OF RUMINANTS.

Applicant : INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA), OF 149 RUE DE GRENNELLE, 75007 PARIS, FRANCE; INSTITUT PASTEUR, OF 28 RUE DE DR ROUX, 75724 PARIS CEDEX 15, FRANCE, AND COMMISSARIAT AL'ENERGIE ATOMIQUE (CEA), OF 29-33, RUE DE LA FEDERATION, 75015 PARIS, FRANCE.

Inventors : (1) BISHOP COLIN, (2) COTNOT CORINNE, (3) FELLOUS MARC, (4) KIRSZENBAUM MAREK, (5) VAIMAN MARCEL.

Application No. 150/Cal/1987, filed on 27th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

4 Claims

A process for the preparation of a molecular probe for DNA specific for the male genome of ruminants, especially the subfamily of the bovinæ and particularly of the genus Bos, wherein genomic DNA segments which have been made single-stranded are reassociated from a mixture of male and female DNA in which the female DNA is in large excess, of the order of 100 parts per part of male DNA, the said process comprising :

— a first step in which female genomic DNA, originating from peripheral lymphocytes of the said ruminants, is cut by means of sonication into fragments of 200 to 550 base pairs (bp) and then mixed, in proportion of the order of 100 : 1, with male genomic DNA of same ruminants, digested by the endonuclease SAU 3A in order to release restriction fragments with sticky ends having a size of between 40 and 2650 bp;

— a second step in which the said mixture of DNA, after extraction, in a manner known per se, with a phenol/chloroform/isoamyl alcohol mixture and precipitation with

ethanol, is denatured at 100°C and then reassociated at 68°C for 22 hours in a buffer containing 2 mol/l of  $(\text{NH}_4)_2\text{SO}_4$ , 50 mmol/l of sodium phosphate (pH = 6.8) and 5 mmol/l of EDTA;

— a third step in which the reassociated double-stranded DNA is mixed with a plasmid such as the plasmid pUC9 ( $\text{Amp}^r$ — $\text{Lac Z}^+$ ), which has first been unwound by the endonuclease BamHI and dephosphorylated with alkaline phosphatase, in the presence of the ligase T<sub>4</sub>, which effects the insertion of DNA into the plasmid, by contact for 16 hours at 16°C;

— and a fourth step in which the recombinant plasmids obtained in the third step are used to transform *Escherichia coli* cells which have been made highly competent, the recombinant clones ( $\text{Amp}^r$ — $\text{Lac Z}^-$ ) being obtained in a proportion of about 200 clones for 2 ml of bacterial cell suspension;

— a fifth step, within the isolated bacterial colonies ( $\text{Amp}^r$ — $\text{LACZ}^-$ ) are individually subcultured for amplification with a view to preparing minilysates, each isolated plasmid is then digested by the endonuclease PvuII, labelled with one or more radio-isotopes and hybridized with genomic DNA originating from said ruminants, and the DNA of these animals is digested by the endonuclease EcoRI, which generates restriction fragments of variable size;

— a sixth step wherein one selects the probes having a hybridization profile which reveals the presence of a band of the order of 7 kb which is specific for the male genome of the genus *Bos*.

Compl. Specn. 44 Pages.

Drg. Nil.

CLASS : 185-D1.

167982

Int. Cl. : A 23 f 3/12; B 02 c 4/20, 4/32.

IMPROVEMENTS IN OR RELATING TO C.T.C. MACHINES.

Applicant : STEELSWORTH PVT. LTD., OF 17, GANESH CHANDRA AVENUE, CALCUTTA-700013, INDIA.

Inventor : MANGALORE PRABHAKAR PRABHU.

Application No. 189/Cal/1987, filed on 9th March 1987.

Complete Specification left on 9th June, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

8 Claims

An improved CTC machine including a system for automatic overload release of rollers, said system comprising a housing provided in association with a CTC roller, said housing having an elongated member of rod secured to the housing movable laterally said elongated member or rod being provided with a resilient member held between retainer members adjustably on said elongated member or rod, said retainer members, said resilient means being held between a bracket, said elongated member or rod being held movable laterally through said retainer members, the free end of the elongated member or rod being provided with means for operating the said elongated member or rod.

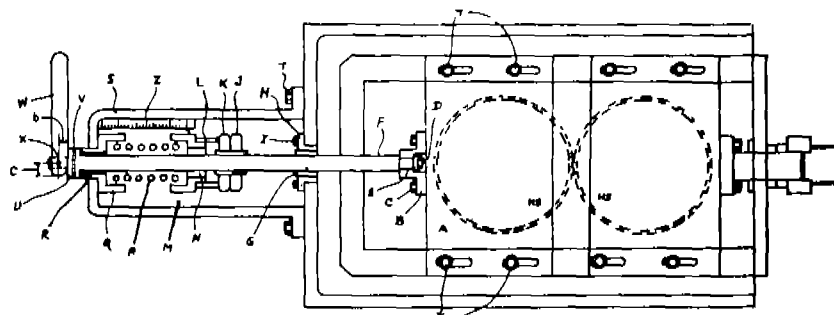


Fig. 1

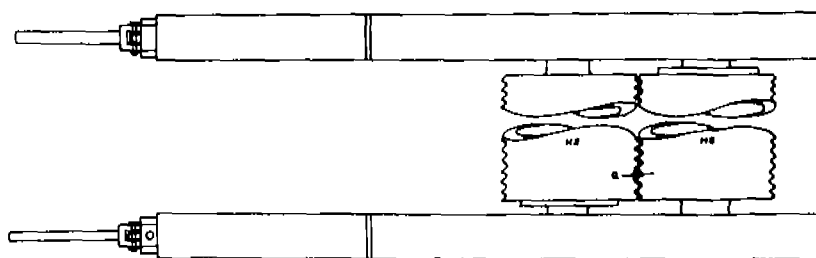


Fig. 2

Compl. Specn. 11 Pages.  
Provl. Specn. 7 Pages.

Drg. 1 Sheet.  
Drg. Nil.

CLASS : 152-F.  
Int. Cl. : C 09 d 5/34.

167983

# IMPROVEMENTS IN OR RELATING TO A PROCESS FOR PREPARING HEAT CONDUCTIVE PUTTY.

Applicant : PROJECTS & DEVELOPMENT (INDIA) LTD.,  
P.O. SINDRI, DHANBAD, BIHAR, INDIA.

Inventors : (1) DR. HRISHIKESH CHANDRA ROY, (2) DR. SRIKRISHNA SHARMA, (3) DR. HIMANGAU BHUSAN ACHARYA, (4) SRI AMARNATH DATTA.

Application No. 262/Cal/1987, filed on 1st April, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A method for preparing improved heat conductive putty which comprises mixing graphite such as graphite flakes in an amount of from 40 to 50% by weight, clay such as Bentonite in an amount of 25% to 34% by weight and organic binder such as tragacanth in an amount of 25% to 34% by weight, adding upto 10% by weight by high heat conductive metallic powder such as aluminium, mild steel or copper as a part replacement of graphite, working the said mix to obtain a uniform mixture and thereafter adding water to obtain a mixture in a ratio of solids to water of 1 : 1.5.

Compl. Specn. 10 Pages.

Drg. Nil.

CLASS : 187-E4.  
Int. Cl. : H 04m 1/26.

167984

# A CIRCUIT FOR SIMULATING THE NSI CONTACT BY MEANS OF ELECTRONIC HOLDING CIRCUIT.

Applicant : SIEMENS AKTIENGESellschaft, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventor : WOLFGANG STRZELETZ.

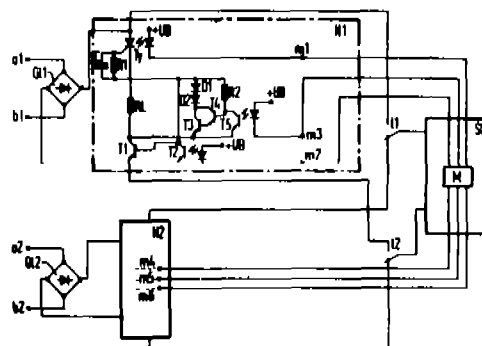
Application No. 599/Cal/1987, filed on August 3, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A circuit for simulating the NSI-contact by means of the electronic holding circuit in a two-loop telephone having first and second subscriber lines and comprising microprocessor control, a rectifier bridge in respect of each subscriber line as reverse polarity protection, a push-button block for the subscriber dialling and for special functions, a speech circuit, a switch-over device for dialling the subscriber line which is to be seized, and a respective electronic holding

circuit between the wires of each subscriber line, where the holding circuit contains a current path which can be switched on and off via the microprocessor and which consists of the series arrangement of a thyristor, a load resistor and a series transistor, characterised in that said current path is formed by a thyristor (Ty), a load resistor (RL) and a transistor (T1) connected in series adapted to be switched on for simulating the closed NSI-contact, said load resistor (RL) in said current path being bridged by semiconductor modules (T3, T4) which are in association with a transistor opto-coupler (T5) adapted to control the said semi-conductor (T5) itself being coupled to a micro-computer (M) for the purposes of controlling it, said micro-computer (M) being also simultaneously associated with said thyristor (Ty) and said transistor (T1) for the purposes of bringing same into a non-conductive state for simulating the open NSI-contact.



Compl. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS : 69-D.  
Int. Cl. : H 01 h 77/06.

167985

# CIRCUIT BREAKER WITH FAST TRIP UNIT.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

Inventors : (1) STEPHEN ALBERT MRENNA, (2) KURT ALBERT GRUNERT, (3) JONATHAN WEISS, (4) VIJAY KUMAR GARG.

Application No. 693/Cal/1987 filed on September 02, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A circuit breaker structure having a faster trip action comprising a circuit breaker mechanism having separable contacts and having a releasable member movable to an unlatched position from a latched position to effect opening of the contacts; a latch lever movable between latched and unlatched positions of the releasable member and being biased in the latched position, a trip bar movable to unlatch the latch lever and being biased in the latched position, a trip unit comprising a stationary magnetic structure for each conductor of the distribution system and including a coil and first core assembly and an armature, lever means associated with each stationary magnetic

structure for moving the trip bar to the unlatched position, the lever means comprising the armature and movable toward the core in response to abnormal currents in at least one of the conductors, and a flux concentrating magnetic plate separated from the assembly and spaced from and on the side of the armature opposite the core and for concentrating a magnetic field in an ambient space between the core and the armature.

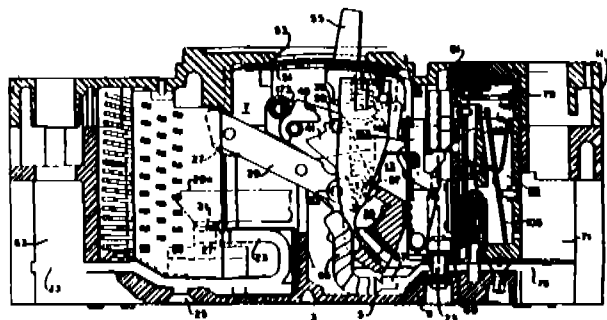


Fig. 1

Compl. Specn. 17 Pages.

Drgs. 4 Sheets.

CLASS : 35-E.

167986

Int. Cl. : C 04 b 35/00.

#### A METHOD PRODUCING BONDED CERAMIC BODIES.

Applicant : LANXIDE TECHNOLOGY COMPANY, LP, TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19711, U.S.A.

Inventors : (1) STANLEY JOSEPH LUSZCH, (2) ANDREW WILLARD URQUHART, (3) MARC STEVENS NEWKIRK.

Application No. 709/Cal/1987 filed on September 07, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A method producing bonded ceramic bodies by bonding at least two ceramic bodies along substantially concurrent surfaces, comprising :

(a) providing a first body of ceramic, said first body comprising a ceramic product formed by the oxidation reaction of molten parent metal such as herein described and a vapor-phase oxidant such as herein described said oxidation reaction product grown as a molten metal is transported through, and oxidized on, the surface of previously formed reaction product, said ceramic body comprising a polycrystalline oxidation reaction product and interconnected residual metal;

(b) assembling said first body of ceramic adjacent to a second body of ceramic in a manner such that a pair of surfaces of said first and second bodies to be bonded together face one another; and

(c) heating the assembled ceramic bodies in the presence of a vapor-phase oxidant at a temperature above the melting point of the said residual metal to induce transport of said residual metal toward the bonding surfaces where oxidation reaction product continues to grow in step (a) thereby effecting a bond between said bodies.

Compl. Specn. 15 Pages.

Drg. 1 Sheet.

CLASS : 70-C; 188.

167987

Int. Cl. : C 23 c 18/00, 18/52, 18/54, 30/00.

#### COMPOSITIONS FOR SILVER PLATING AND POLISHING.

Applicant : LAMERIE, N.V., AT COMPENDIUM HOUSE, 1 WESLEY STREET, ST. HELIER JERSEY, CHANNEL ISLANDS, UNITED KINGDOM.

Inventors : (1) LAWRENCE MICHAEL PEROVETZ, (2) JACK PICKTHALL.

Application No. 771/Cal/1987 filed on September 29, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A non-toxic composition in the form of solution/cream for (a) polishing and silver plating a base metal or for restoring silver removed from a silver plated article by previous polishing, and for (b) polishing and maintaining the amount of silver on a silver plated article, by restoring at least the amount of silver removed by that polishing comprising (1) a silver generating compound selected from the group consisting of silver nitrate, silver oxide, silver lactate, silver acetate, silver chloride, silver carbonate and silver phosphate; (2) a reducing compound for said silver generating compound which is selected from the group consisting of potassium hydrogen tartrate, sodium sulfite, sodium thiosulphate and sodium metabisulfate; (3) alcohol, such as herein described, polyoxyalkylene ester as emulsifier surfactant; respectively; (4) a humectant selected from the group consisting of diethylene glycol, dipropylene glycol and triethylene glycol; (5) a diatomaceous earth as a polishing component; and (6) water, the amounts of (1) to (6) being predetermined by the amount of silver required to be deposited.

Compl. Specn. 21 Pages.

Drg. NIL.

CLASS : 20-C.

167988

Int. Cl. : F 27 b 7/00.

#### A METHOD FOR TREATMENT OF DOMESTIC AND INDUSTRIAL WASTE MATERIALS.

Applicant : NEUTRALYSIS INDUSTRIES PTY. LTD., OF 2 LEEDS STREET, ROCKLEA, QUEENSLAND, 4106, AUSTRALIA.

Inventors : (1) KENNETH LEIGH WHITE, (2) HAROLD BYAM WIGHT.

Application No. 773/Cal/1987 filed on October 05, 1987.

Convention dated 2nd October, 1986; No. PH 8282; AUSTRALIA.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A method for the treatment of domestic and industrial waste materials to produce a inert aggregate in the form of pellets said method including the steps of :

mixing solid and/or liquid wastes with a binding material such as herein described;

forming pellets of waste material from said mixture;

passing the pellets through a pyrolysis zone in a kiln to drive off at least a portion of the volatile gases in the waste;

passing the pellets through an oxidation zone in a kiln where the oxygen causes the remaining volatile gases and at least a portion of the fixed carbon in the waste to be oxidized;

passing the pellets through a vitrification zone in a kiln to vitrify the silicates present in the pellets to form a solid aggregate, and wherein

the volatile gases from the pyrolysis zone are used as fuel gas for combustion in the oxidation and/or vitrification zones.

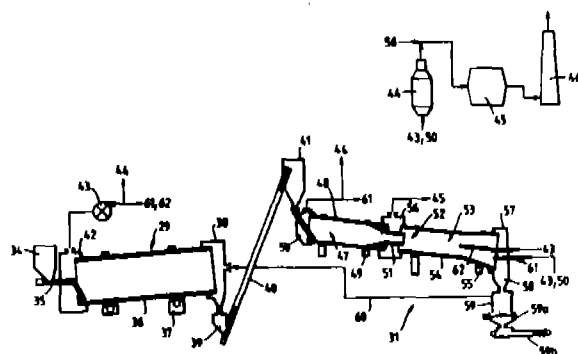


Fig. 2

Compl. Specn. 16 Pages.

Drgs. 6 Sheets.

CLASS : 184.  
Int. Cl. : E 03 c 1/00.

167989

#### DUAL FLUSH CISTERN MECHANISM.

Applicant : CAROMA INDUSTRIES LIMITED, OF 76 MAGILL ROAD, NORWOOD, SOUTH AUSTRALIA 5067, AUSTRALIA.

Inventor : BRUCE RUSSELL THOMPSON.

Application No. 816/Cal/1987 filed on October 19, 1987.

Convention dated 20th October, 1986; No. PH 8591; Australia and dated 8th January, 1987; No. PH 9798; Australia.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A dual flush cistern mechanism comprising a substantially vertical stem mounted for substantially vertical movement above a flush valve of said cistern and having a flush valve seal located at its lower end; a float slidably mounted on said stem intermediate the ends thereof; a first lever arm pivotably connected to said stem at a location spaced from a first pivot in said cistern for said first lever arm, and being pivotable by each of a first and a second operating mechanism to raise said stem to open said flush valve; a second lever arm pivotable by said second operating mechanism about a second pivot in

said cistern and carrying a latch member releasably engageable with said float to retain said float in a first, high operating position, and a projection extending from said stem to limit the travel of said float into a second low operating position; wherein said first operating mechanism is operable to raise said stem with said float retained in said high operating mechanism is operable to substantially simultaneously raise said stem to open said flush valve to drain water from said cistern and release said latch member whereby said float drops with water level in said cistern until said float engages said stem projection to move said stem downwardly and close said flush valve before the expiration of said first duration, said float being buoyantly movable from said low to said high position to re-engage said latch member with said float when said cistern is re-filled with water.

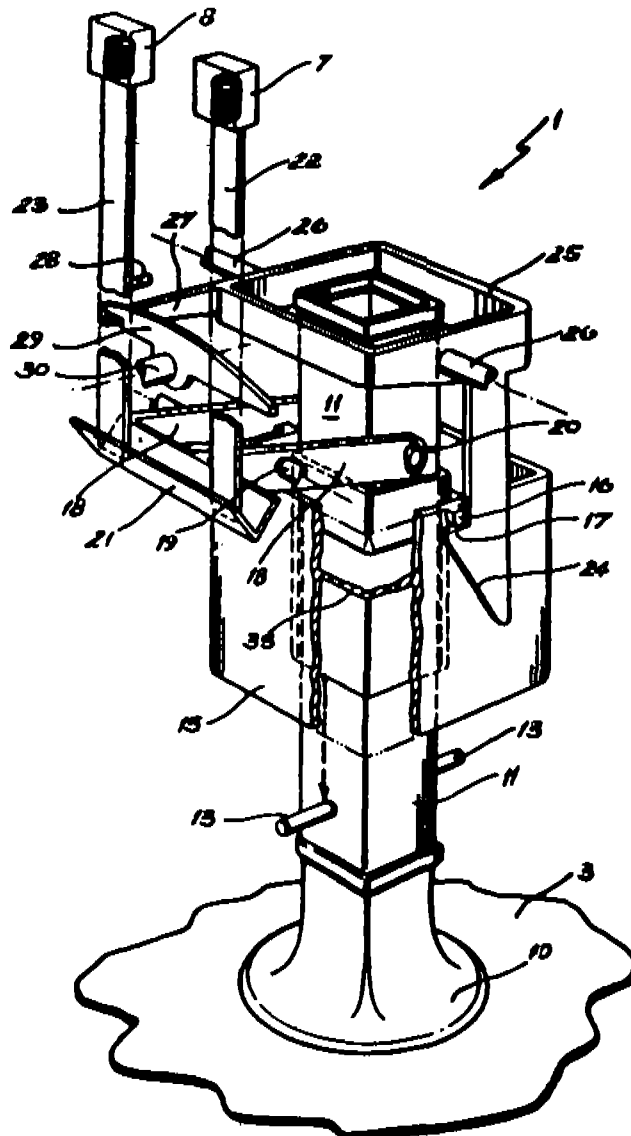


Fig. 1

Compl. Specn. 12 Pages.

Drgs. 3 Sheets.

CLASS : 105-D.  
Int. Cl. : G 11 b 7/00.

167990

#### OPTICAL-MECHANICAL STORAGE DEVICE.

Applicant : INSTITUT PROBLEM MODELIROVANIA V ENERGETIKE AKADEMII NAUK UKRAISKOI SSR, OF KIEV, PROSPEKT POBEDY, 56, USSR.

Inventors : (1) ALEXANDR ALEXANDROVICH ANTONOV,  
(2) VYACHESLAV VASILIEVICH PETROV, (3) ALEXANDR  
ANTONOVICH ZELINSKY.

Application No. 901/Cal/1987 filed on November 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972) Patent Office, Calcutta.

### 3 Claims

An optical-mechanical storage device comprising a cylindrical information carrier (1) made as a tubular base with a recording layer (2) applied to the inner surface thereof, which is arranged inside a cylindrical shell (4) and coaxially therewith, and a source of electromagnetic radiation (7) characterized in that flanges (8, 9) are installed on the butt ends of the cylindrical information carrier (1) a driving head (10) of a drive (13) for rotation and/or axial displacement of the cylindrical information carrier (1) being secured to at least one flange (8 or 9); the cylindrical shell (4) is made up of two parts hermetically sealed together, one part thereof being a detachable container (11) and is equipped with a flange holding device consisting of a lid (15) secured on the butt end of the said detachable container (11) with a permanent magnet (17) provided inside the said lid (15); the drive (13) for rotation and/or axial displacement of the cylindrical information carrier (1) is disposed outside the cylindrical shell (4) filled with an immersion fluid (14).

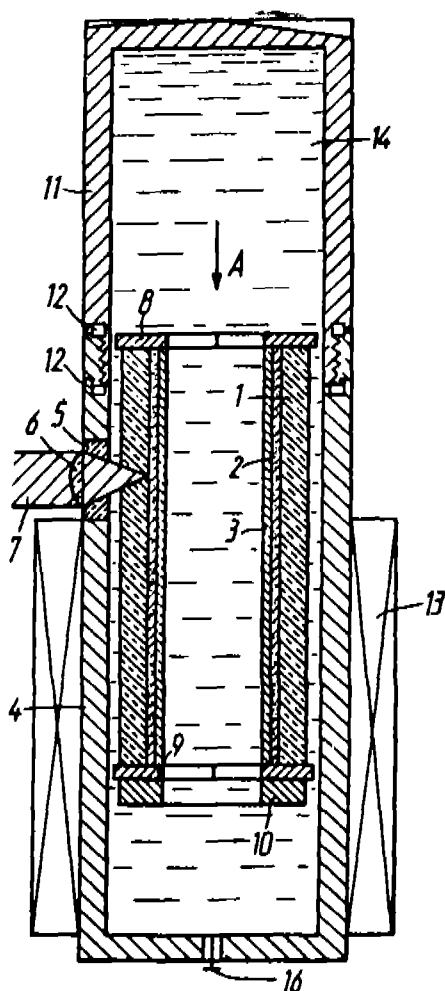


Fig. 1

Compl. Specn. 11 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 160 A & 116 G.

167991

Int. Cl.<sup>4</sup> : B60P-1/00 & B 65D-90/00, 88/00.

### A BULK CONTAINER FOR TRANSPORTATION OF GOODS.

Applicant : NATIONAL COUNCIL FOR CEMENT AND  
BUILDING MATERIALS, M-10, SOUTH EXTN., PART-II, RING  
ROAD, NEW DELHI-110049.

Inventors : HOSAGRAHARA CHANDRASEKHARAIHA  
VISVESVARAYA, AJOY KUMAR MULLICK, JAGENDRA  
PRASAD SAXENA, JAYANT DATTATRAYA BAPAT, CHIT-  
TARANJAN KUMAR SHARMA.

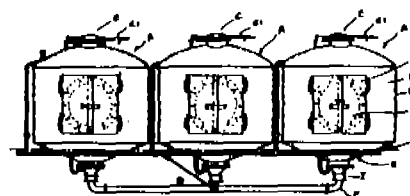
Application for Patent No. 524/Del/1985, filed on 2nd July,  
1985.

Complete Specification No. left on 1-1-1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office Branch, New Delhi-110005.

### 2 Claims

A bulk container supported on a chassis for transportation of goods including particulate material comprising a tank having a hatch for introduction of particulate materials, said tank having a base, fluidized pads disposed along the inner surface of said base and adapted to be connected to a source of compressed air, an outlet at said base for discharge of the particulate material characterized in an additional opening provided along a side wall of said tank, a closure member capable of closing at any one instance either said opening or the outlet at said base and an outer door provided with said opening.



Compl. Specn. 8 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 35 C [XXV (2)].

167992

Int. Cl.<sup>4</sup> : C04B 7/32.

### A METHOD OF PRODUCING A SETTABLE CEMENTITIOUS COMPOSITION.

Applicant : BLUE CIRCLE INDUSTRIES PLC., A BRITISH  
COMPANY, OF PORTLAND HOUSE, ALDERMASTON,  
BERKSHIRE, RG7 4 HP, UNITED KINGDOM, MANUFACTURERS.

Inventors : PETER SHELLEYMILLS & GERFREY RICHARD  
LONG.

Application for Patent No. 383/Del/86, filed on 29th April, 1986.

Convention date May 20th 1985 & October 30th 1985/8512675/  
8526742/U.K./U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office Branch, New Delhi-110005.

## 14 Claims

A method of producing a settable cementitious composition wherein a ground mineral clinker composition is mixed in the presence of water with a source of alkali metal or alkaline earth metal under alkaline conditions, characterized that the said mineral clinker composition contains  $4\text{CaO} \cdot 3\text{Al}_2\text{O}_3 \cdot 3.8\text{SiO}_2$  in an amount of from 15 to 68%, and  $8\text{SiO}_2$ , such  $\text{SiO}_2$  being present substantially as the phase  $2\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$ , the balance, if any of the mineral clinker composition being composed essentially of at least one component selected from the group consisting of not more than 1.0% of free lime, less than 25% of  $\text{CaO} \cdot 2\text{Al}_2\text{O}_3$ , not more than 10% of  $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$  less than 5% of  $\text{CaO} \cdot \text{TiO}_2$  less than 10% of ferrite phase, up to 60% of  $\text{CaO} \cdot \text{Al}_2\text{O}_3$  and up to 4.1% of  $\text{CaSO}_4$ , the said percentages being by weight of the mineral clinker composition.

Compl. Specn. 31 Pages.

Drg. 1 Sheet.

Ind. Cl. : 140 A2.

167993

Int. Cl. : C10M 133/16.

## PROCESS FOR PRODUCING AN OIL SOLUBLE LOAD CARRYING ADDITIVE.

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO, U.S.A.

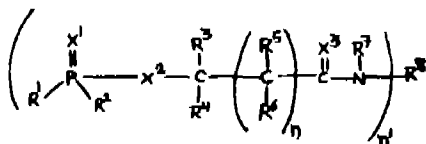
Inventors : ADAMS PAUL ERNEST & LUCIANI CARMEN VINCENT.

Application for Patent No. 394/Del/86, filed on 1st May, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

## 5 Claims

A process for producing an oil soluble load carrying additive of the general formula I



Formula I

of the drawings wherein  $\text{X}^1$ ,  $\text{X}^2$  and  $\text{X}^3$ , independently, is O or S;

wherein  $\text{R}^1$  and  $\text{R}^2$ , independently, is a hydrocarbyl, a hydrocarbyl-based oxy, the hydrocarbyl portion of which contains 6 to 22 carbon atoms, or a hydrocarbyl-based thio, having from 4 to 34 carbon atoms;

wherein  $\text{R}^3$ ,  $\text{R}^4$ ,  $\text{R}^5$  and  $\text{R}^6$ , independently, is hydrogen, or an alkyl having from 1 to 22 carbon atoms, a cycloalkyl having from 4 to 22 carbon atoms, or an aromatic, an alkyl-substituted aromatic or an aromatic-substituted alkyl having from 6 to 34 carbon atoms;

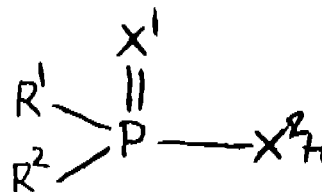
wherein  $n$  is 0 or 1;

wherein  $m$  is 1, 2 or 3;

wherein  $\text{R}^7$  is hydrogen or an alkyl having from 1 to 22 carbon atoms; and

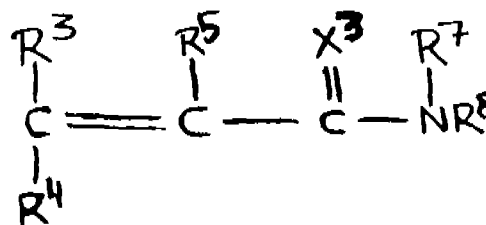
wherein when  $n$  is 1,  $\text{R}^8$  is selected from the group consisting of -H, -ROH, -RSR, and radical I of the drawings, -OR, -SR, and -R' wherein R is independently hydrogen or an alkyl moiety, in the form of alkylene or alkylidene containing 1 to 12 carbon atoms and R' is hydrogen or an alkyl moiety, alkylene, alkylidene or carboxyl containing 1 to 60 carbon atoms and when  $n$  is 3,  $\text{R}^8$  is radical I of the drawings, the process comprising:

reacting an acid as herein described having the formula A



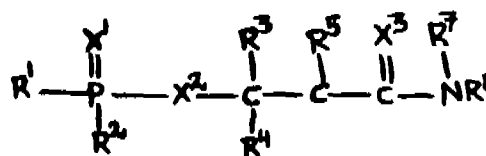
Formula A

of the drawing wherein  $\text{X}^1$  and  $\text{X}^2$  independently is O or S; wherein  $\text{R}^1$  and  $\text{R}^2$ , independently, is a hydrocarbyl moiety, a hydrocarbyl-based oxy moiety, or a hydrocarbyl based thio moiety having from 4 to 34 carbon atoms; with a compound having the formula B



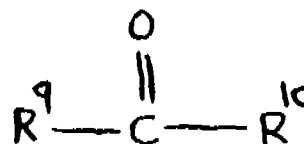
Formula B

of the drawings wherein  $\text{X}^3$  is O or S; wherein  $\text{R}^3$ ,  $\text{R}^4$ , and  $\text{R}^5$ , independently, is hydrogen or a saturated or unsaturated hydrocarbyl having from 1 to 34 carbon atoms, wherein  $\text{R}^7$  is hydrogen or an alkyl having from 1 to 22 carbon atoms, wherein  $\text{R}^8$  is selected from the group consisting of -H, -ROH, -RSR, and radical (I) wherein each R is independently hydrogen or an alkyl moiety in the form of an alkylene or alkylidene containing 1 to 12 carbon atoms; and coupling the subsequent reaction product of the formula III



Formula III

formed thereby in the presence of a compound having the formula C



Formula C

of the drawings where  $\text{R}^9$  and  $\text{R}^{10}$ , independently, is hydrogen, an alkyl moiety having from 1 to 12 carbon atoms, phenyl, or an alkyl substituted phenyl having from 7 to 12 carbon atoms.

Compl. Specn. 31 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 32 E.  
Int. Cl.<sup>4</sup> : C08 F 2/26.

167994

7 Claims

# PROCESS FOR THE ANIONIC POLYMERIZATION OF MONOMERS.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventor : ARTHUR ROBINSON BEAN.

Application for Patent No. 557/Del/87, filed on 25th June, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

A process for the anionic polymerization of a monomer of the kind such as herein described comprising the following steps :—

- (a) contacting and reacting in a batch mode and at a temperature of at least 50°C a charge of monomer of the kind such as herein described suited for anionic polymerization and a charge of anionic polymerization initiator of the kind such as herein described, and
- (b) subsequently contacting and reacting in a continuous or semi-continuous mode the product of step (a) with additional monomer of the kind such as herein described and which additional monomer may be the same as or different from that reacted in step (a), to continue the anionic polymerization reaction, characterized in that step (b) is commenced continuous or semi-continuous by addition of monomer to the product of batch step (a) after between 95.0 and 99.9 per cent of the monomer charge to step (a) has been converted in the batch reaction while the molar ratio of the unreacted monomer in step (a) to the initiator charge to step (a) remains at least 1 : 1 and less than 100 : 1.

Compl. Specn. 17 Pages.

Ind. Cl. : 9A & F [XXXIII (I)].  
Int. Cl.<sup>4</sup> : C22 c 21/00.

167995

# PROCESS FOR PRODUCING AN ELECTROCHEMICALLY ACTIVE ALUMINUM ALLOY ANODE.

Applicant : ALCAN INTERNATIONAL LIMITED, OF 1188 SHERBROKE STEET, WEST MONTREAL, QUEBEC, CANADA H3A 3G2.

Inventors : PAUL WILLIAM JEFFREY, WOJCIECH HALIOP & FRANK NEALE SMITH.

Application for Patent No. 623/Del/1986, filed on 14th July, 1986.

Convention date July 26/1986, May 30/86/487563/510488/CANADA/CANADA.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

A process for producing an electrochemically active aluminum alloy anode which comprises combining in any known manner with aluminum having a purity of at least 99.95 per cent, from 0.01 to 0.20 per cent by weight of indium and from 0.01 to 1.75 per cent of at least one corrosion minimising agent selected from, manganese and magnesium to form an alloy, and casting in any known manner the alloy so formed into the desired anode.

Compl. Specn. 12 Pages.

Drg. Nil.

Ind. Cl. : 70 C4 & 130 F.  
Int. Cl.<sup>4</sup> : C22B 13/04.

167996

# A PROCESS FOR DIRECT ELECTROWINNING OF LEAD METAL FROM GALENA CONCENTRATE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RAJA KISHORE PARAMGURU & ROLAND KAMMEL.

Application for Patent No. 958/Del/86, filed on 29th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

7 Claims

A process for direct electrowinning of lead metal from galena concentrate which comprises :

- (i) grinding the galena concentrate,
- (ii) making a slurry of the ground concentrate in sodium chloride solution containing lead chloride to form an electrolyte bath.
- (iii) adding a conducting material such as graphite to the electrolytic bath.
- (iv) feeding the said electrolytic bath in the electrolytic cell and heating the said bath to a temperature in the range of 60° to 70°C.
- (v) electrolyzing the electrolytic bath in the anode chamber having graphite anode of a two compartment electrolytic cell wherein anode chamber being separated from cathode chamber have lead cathode by a diaphragm, till 25% of the galena is dissolved, and permitting the dissolved galena to pass through said diaphragm into cathode chamber where lead is deposited on cathode.
- (vi) recovering the lead deposited on the cathode during electrolysis by known methods.

Compl. Specn. 8 Pages.

Int. Cl. : 170 A.  
Int. Cl.<sup>4</sup> : C11D 1/835.

167997

#### A DETERGENT COMPOSITIONS.

Applicant : COLGATE-PALMOLIVE COMPANY, OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : GUY BROZE AND DANIELLE BASTIN.

Application for Patent No. 109/Del/87, filed on 11th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 5 Claims

A detergent composition for cleaning and imparting softness to the fabrics which comprises a conventional liquid nonionic surfactant detergent in an amount of from 10 to 70% by wt. of the composition, a conventional detergent builder in an amount of upto 60% by wt and the balance if any, constituted by one or more conventional additives, characterised in that the composition also includes from 2.5 to 35% by to of a macro salt complex-reaction product of an acid terminated nonionic surfactant of the kind such as herein described and a cationic quaternary ammonium salt softener of the kind such as herein described, which macro salt complex on addition to an aqueous wash bath will slowly hydrolyze and release the quaternary ammonium softener for deposition onto and softening of the fabrics being cleaned, the mole ratio of said acid terminated nonionic surfactant to said quaternary ammonium salt softener being from 1.3 : 1 to 1 : 1.3.

Compl. Specn. 49 Pages.

Ind. Cl. : 166 A.  
Int. Cl.<sup>4</sup> : B63B. 9/00.

167998

#### A COMBINATION TWO-SECTION BOAT AND PORTABLE CARGO CARRIER.

Applicant & Inventor : HOWARD EDWARD LEVINE, OF 4401 E. HEARN ROAD, PHOENIX, ARIZONA 85032, UNITED STATES OF AMERICA, A U.S. CITIZEN.

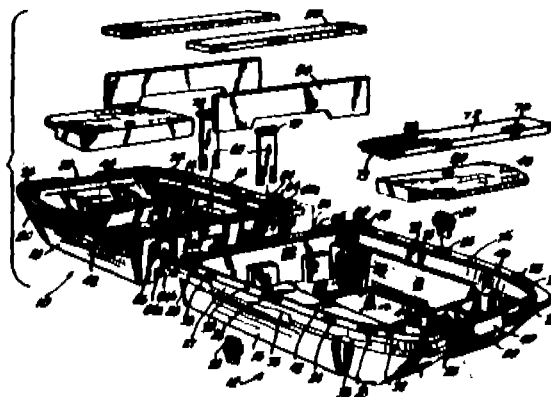
Application for Patent No. 115/Del/87, filed on 12th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 18 Claims

A combination two-section boat and portable cargo carrier comprising, first (10) and second (12) substantially identical sections each having a substantially horizontal bottom surface, (14) at least two generally vertical side walls (16, 18) joined to said bottom surface at the periphery thereof, and a generally vertical connecting wall (22) said connecting wall having at least one male connector (62a, 62b) which protrudes from the surface of said connecting wall in a direction generally normal to the plane of said connecting wall, and at least one complementary female connector (64a, 64b) which is recessed

into said connecting wall (22) in a direction generally normal to the plane of said connecting wall, said male and female connectors symmetrically disposed from a vertical center line of the connection wall and from the upper edge of the connecting wall, and mating with each other when the connecting walls of said first and second sections are placed in abutting relation to one another, and a removable planar connector (68) to join the male and female connections.



Compl. Specn. 17 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 32 E.  
Int. Cl.<sup>4</sup> : C08F 214/06 & 218/08.

167999

#### A PROCESS FOR THE PRODUCTION OF LOW MOLECULAR WEIGHT COPOLYMERS.

Applicant : THE B.F. GOODRICH COMPANY, A NEW YORK, CORPORATION, 500 SOUTH MAIN STREET, AKRON, OHIO 44318, U.S.A.

Inventor : ZAEV SHARABY.

Application for Patent No. 249/Del/87, filed on 23rd March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 12 Claims

A process for the production of low molecular weight copolymers of vinyl or vinylidene halides and vinyl esters of acids, said acids having 2 to 3 carbon atoms, by aqueous polymerization, comprising (a) reacting up to 25 parts by weight of vinyl esters of said acids per 100 parts by weight of vinyl or vinylidene halide monomer, as a comonomer, and (b) from 0.03 to 5.00 parts by weight per 100 parts monomer of a water soluble or insoluble mercaptan as a chain transfer agent, wherein the mercaptan is admixed with said vinyl esters before adding said mercaptan to the polymerization medium, and wherein at least 0.25 parts by weight of the total amount of mercaptan or 100% of the total amount of said mercaptan is admixed with vinyl ester and added to the polymerization medium prior to the start of the polymerization reaction, and wherein less than 2.0 parts by weight of a dispersant of the kind such as herein described is present per 100 parts by weight of monomer.

Compl. Specn. 18 Pages.

Ind. Cl. : 85G.  
Int. Cl.<sup>4</sup> : B22F 3/00.

168000

Application No. 313/Cal/1987, filed on April 21, 1987.

### A FOUNDRY APPARATUS FOR THE PRODUCTION OF METAL PARTS.

Applicant : SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION "S.N.E.C.M.A.", OF 2, BOULEVARD VICTOR, 75015 PARIS. FRANCE.

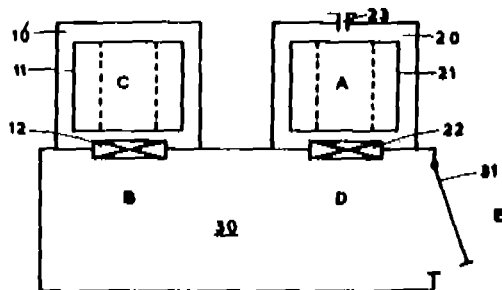
Inventors : JEAN-CLAUDE DORIATH, GEORGES M.C.A GAUJE & JACQUES L.E. GRAMMAGNAC.

Application for Patent No. 312/Del/87, filed on 13th April, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

#### 18 Claims

A foundry apparatus for the production of shaped metal parts by directional solidification, said apparatus comprising a fluid-tight casting chamber (20) having means for controlling the atmosphere therein, a furnace (21) for setting the temperature of a mould to a predetermined temperature, disposed in the said casting chamber, means (28) for casting alloy, disposed in said casting chamber, an airlock chamber (30), for the introduction and removal of moulds, having an opening with a fluid tight door (31) in communication with the ambient and a mould passage opening in flow communication with the said casting chamber and closable by an externally controlled fluid tight valve (22), an externally controlled means for transferring the mould from the airlock to the furnace and vice versa, characterised in that said foundry apparatus comprises at least one additional fluid tight chamber (10) for preheating and degassing of the moulds having means for controlling the atmosphere therein and a preheating mould furnace (11) disposed therein, the mould furnace communicating with the said airlock (30) through a second mould passage opening closable by means of a second externally controlled fluid tight valve (12) and a second externally controlled transfer means for transferring said mould through said mould passage opening from the airlock to the interior of said preheating furnace and vice versa



Compl. Specn. 32 Pages.

Drgs. 2 Sheets.

CLASS : 206-E.  
Int. Cl. : II 04 b 1/03.

168001

### SHORT-WAVE TRANSMITTERS.

Applicant : SIEMENS AKTIENGESSELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventor : HELMUT FUNFGELDER.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 4 Claims

A short-wave transmitter whose transmitter output stage comprises a plurality of power output stages, a power driver stage for emitting a signal and supplying said signal to the inputs of all the power output stages via a signal divider, in each case at the same control power level, the outputs of each pair of at least two of said power output stages being combined via a network comprising hybrid circuits and transformers to form a sum output which emits the sum of the signals of the power output stages to a sum output line, added in correct phase-relationship; from all the power output stages, characterized in that each of the power output stages having its output end connected by a respective change-over switch either to the network or directly to the sum output line, and the sum output line adapted to be connected to the sum output via a switch, and that said power output stages, said change-over switches and said switch are connected via lines to a control device.

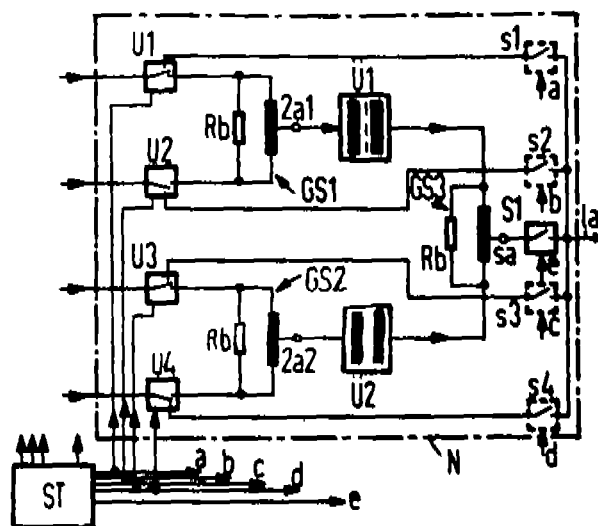


Fig. 2

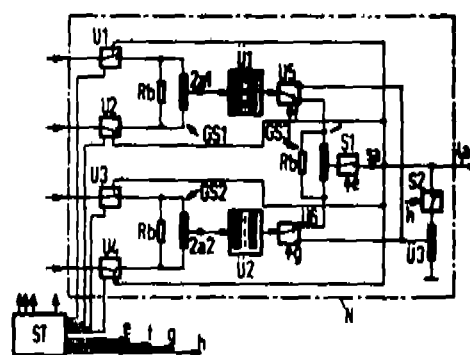


Fig. 4

Compl. Specn. 11 Pages.

Drgs. 3 Sheets.

CLASS : 34-A; 172-B  
Int. Cl. : D 01 d 4/00; 5/00.

168002

### IMPROVEMENTS IN OR RELATING TO A MELT SPINNING PROCESS AND APPARATUS THEREFOR.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY,  
LOCATED AT WILMINGTON, DELAWARE, UNITED STATES  
OF AMERICA.

Inventors : (1) BENJAMIN CHIATSE SZE, (2) GEORGE  
VASSILATOS

Application No. 319/Cal/1987, filed on 22nd April 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

13 Claims

In a melt spinning process for spinning continuous polymeric  
filaments in a path from a spinning pack at a spinneret controlled by  
a withdrawal means the improvement comprising :

directing a gas into a zone enclosing said path, said zone  
extending from said spinning pack to a location between the  
spinning pack and the withdrawal means; maintaining said  
zone under superatmospheric pressure of between 0.1 to 1 kg/  
cm<sup>2</sup> and increasing the velocity of the gas as it leaves the zone to  
a level greater than the velocity of filaments by from 1.5 to  
100 times.

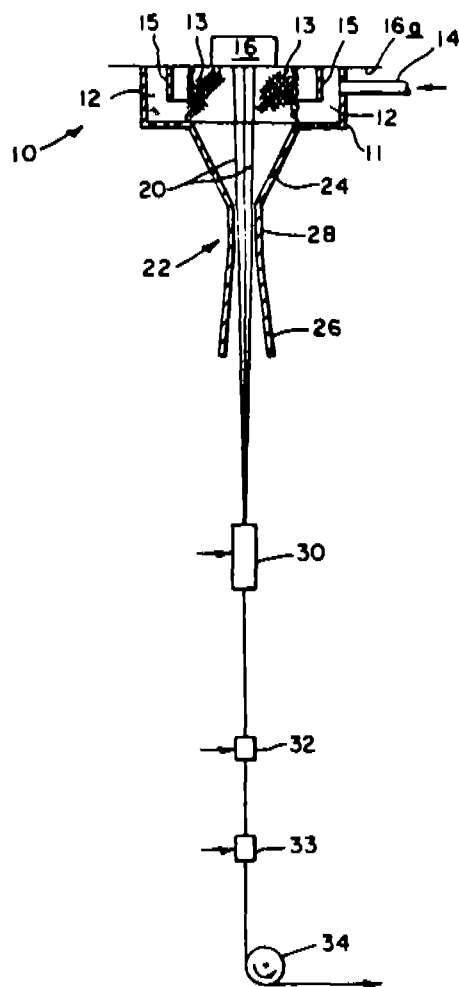


Fig. 1

Compl. Specn. 23 Pages.

Drgs. 4 Sheets.

CLASS : 105-C.  
Int. Cl. : G 11 b 7/00.

168003

#### OPTICAL INFORMATION CARRIER.

Applicant : INSITTUT PROBLEM MODELIROVANIA V  
ENERGETIKE AKADEMII NAUK UKRAINSKOI SSR, OF  
KIEV, PROSPEKT POBEDY, 56, USSR.

Inventors : (1) VYACHESLAV VASILIEVICH PETROV,  
(2) ALEXANDR ALEXANDROVICH ANTONOV, (3) NIKOLAI  
VASILIEVICH GORSHKOV, (4) ANDREI ANDREEVICH  
KRJUCHIN, (5) ALEXANDR PETROVICH TOKAR, (6) SEMEN  
MIKHALLOVICH SHANOILO, (7) DMITRY ALEXAN-  
DROVICH GRINKO, (8) TATYANA IVANOVNA SERGIENKO,  
(9) GENNADY JURIEVICH JUDIN, (10) EVGENY EVGENIE-  
VICH ANTONOV, (11) VLADISLAV IVANOVICH POPOVICH.

Application No. 368/Cal/1987, filed on May 6, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

4 Claims

An optical information carrier comprising a hollow cylinder  
transparent to laser radiation, two bushings located at butt ends of the  
hollow cylinder to form a closed air-tight space therein, a recording  
layer intended for recording information thereon and disposed on the  
internal surface of the hollow cylinder inside the air-tight closed  
space, thus being insulated from the environment.

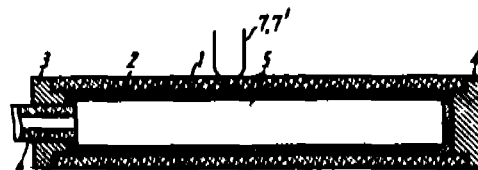


Fig. 1

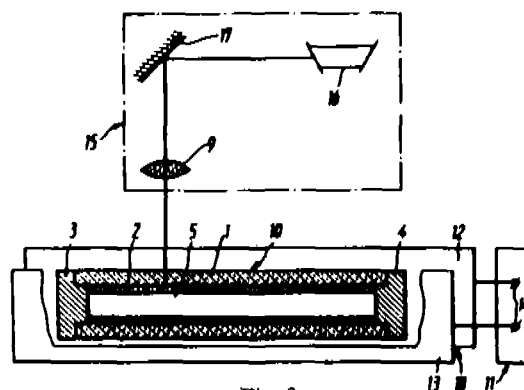


Fig. 2

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

CLASS : 128-F; H.  
Int. Cl. : a 61 m 5/00; 9/00.

168004

#### DEVICE FOR CLEANSING THE COLON.

Applicant : BLAGOVESCHENSKY GOSUDARSTVENNY  
MEDITSINSKY INSTITUT, OF BLAGOVESCHENSK, ULITS  
GORKOGO, 97, USSR.

Inventors : (1) YAROSLAV PETROVICH KULIK, (2) ALEXEI ALEXANDROVICH MALAEV.

Application No. 455/Cal/1987, filed on June 11, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 2 Claims

A device for cleansing the colon, comprising a cylinder-shaped housing (1) with an oval-shaped end, said housing having a discharge channel (2) and an aspiration channel (3) isolated from each other and having respective outlet ports (23, 21) in the end portion of the housing (1), a reservoir (5) for a lavation solution, and a receptacle (10), the reservoir (5) communicating with the discharge channel (2) through a piping (4), while the receptacle (10) communicates with the aspiration channel (3) via a piping (9), and means for regulating the delivery head of a discharged fluid and the suction head of an aspirated fluid, characterized in that the housing (1) is made of an elastic material, and an endoscope (17) is provided in the aspiration channel (3), whose working portion (18) is brought outwards through the end of the housing (1), and a transparent inflatable balloon (19) is attached to said working portion (18).

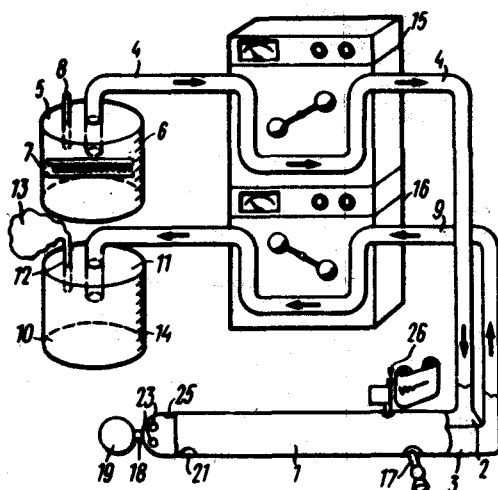


Fig. 1

Compl. Specn. 10 Pages.

Drgs. 2 Sheets.

CLASS : 139-C.

Int. Cl. : C 01 b 7/01.

168005

### MANUFACTURING PROCESS OF CHLORINE.

Applicant : MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) TADMISTU KIYOURA, (2) YASUO KOGURE, (3) TOKIO NAGAYAMA, (4) KAZUO KANAYA.

Application No. 521/Cal/1987, filed on 7th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 8 Claims

A manufacturing process of chlorine by the oxidation of hydrogen chloride with molecular oxygen which comprises oxidizing in the presence of a chromic oxide catalyst obtained by supporting chromic oxide in an amount of 20 to 90 wt. % as chromic on a silicon oxide carrier having a pore volume in the range of 0.3 to 1.8 cc/g and conducting a heat-treatment at a temperature of 450 to 700°C.

Compl. Specn. 23 Pages.

Drgs. Nil.

CLASS : 71-B, G.

168006

Int. Cl. : B 02 c 23/00, 23/02.

### MOBILE, SELF-PROPELLED CRUSHING MACHINE.

Applicant : BARBIERI ELDA, OF VIA PASUBIO 31-36030 VILLAVERLA (VI), ITALY.

Inventor : BARBIERI ELDA.

Application No. 533/Cal/1987, filed on 10th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 13 Claims

A mobile, self-propelled crushing machine comprising :

a support structure having two longitudinal, generally parallel beams supporting a central frame, said central frame having at least four corners;

a rotor housed within the central frame, said rotor having a cylindrical member;

means for moving the rotor generally orthogonally to the generally parallel beams in order to move the rotor away from ground beneath the crushing machine and toward and into the ground, said means for moving being positioned at least at each of the four corners of the central frame;

a series of flanges and spacers provided on the rotor, said flanges being separated from one another by the spacers;

hammers detachably affixed to the flanges on the rotor; and

means for rotating the rotor, said means for rotating being operatively connected to and located within the rotor.

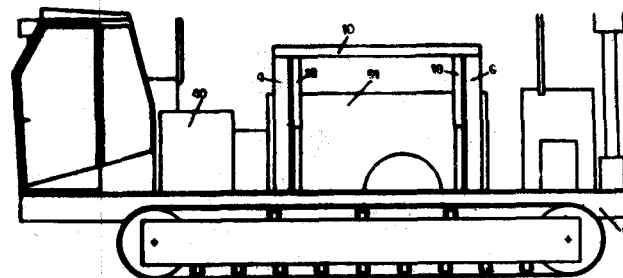


Fig. 1

Compl. Specn. 18 Pages.

Drgs. 6 Sheets.

CLASS : 119-B, C.  
Int. Cl. : D 03 c 13/00.

168007

## SHED-FORMING APPARATUS FOR DOUP WEAVE.

Applicant : LENZING AKTIENGESELLSCHAFT, OF A-4860  
LENZING, AUSTRIA.

Inventor : RUDOLF WOLF.

Application No. 661/Cal/1987, filed on 20th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

## 11 Claims

Shed-forming apparatus for use in a circular loom for producing a doup weave comprising shed-forming means, each of said shed-forming means provided with a slot for accommodating and lifting a warp thread and a bore for accommodating a stationary thread and adapted to be pivoted back and forth, about a pivoting axis substantially perpendicular to the warp thread and the stationary thread and essentially parallel to a warp plane, at least two of said shed-forming means being rigidly interconnected at positions located outwardly of the slot to a group of said shed-forming means, a plurality of groups being positioned concentrically and at angular locations around a rotating axis of a drum of a circular loom and connected to the drum so that each of said groups are pivoted by rotation of said drum.

Compl. Specn. 11 Pages.

Drgs. 4 Sheets.

CLASS : 103.  
Int. Cl. : C 09 k 15/00.

168008

COMPOSITION FOR PROTECTING STEEL SURFACES  
AGAINST ATMOSPHERIC OXIDATION.

Applicant : ITALBONDER SPA, OF VIA DON MINZONI 1.  
20090 CALEPPPIO DI SETTALA (MI), ITALY.

Inventor : GIUSEPPE PEDRAZZINI.

Application No. 741/Cal/1987, filed on 17th September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

## 3 Claims

Composition for protecting steel surfaces against atmospheric oxidation, comprising a component, the quercetin derivative of monoalloylagic acid in amounts ranging from 15 to 30% by weight, phosphoric acid in amounts ranging from 2 to 3.2% by weight, monoacid zinc phosphate in amounts ranging from 1.1 to 2% by weight, Zn nitrate in amounts ranging from 7 to 12% by weight, ascorbic acid in amounts ranging from 0.05 to 0.5% by weight, a water miscible organic solvent such as herein described in amounts ranging from 18 to 32% by weight, and water.

Compl. Specn. 13 Pages.

Drg. 1 Sheet.

CLASS : 40-F.  
Int. Cl. : B 01 j 3/00.

168009

APPARATUS FOR REDUCING THE PRESSURE IN A  
LIQUID MIXTURE OF HYDROCARBON COMPOUNDS.

Applicant : ALFA LAVAL SEPARATION AB, OF BOX 500,  
S-147 00 TUMBA, SWEDEN.

Inventor : KJELL KLINTENSTEDT.

Application No. 857/Cal/87, filed on 2nd November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

## 5 Claims

Apparatus for reducing the pressure in a liquid mixture of hydrocarbon compounds from a predetermined pressure, characterized by :

- a rotatable vessel (1) confining a chamber (12),
- means (9, 10) for rotation of the vessel (1),
- a device (14; 3a, 40) for supplying of a liquid mixture at a first radial level in the chamber (12), which device forms at least one channel (15; 41) extending from an area near the rotational axis of the vessel (1) to said first radial level, and arranged to prevent such a pressure increase in the liquid mixture in the channel that would be a consequence of allowing the liquid mixture to flow freely in the channel and simultaneously be completely entrained in the rotation of the vessel,
- members (34) connected with the vessel (1) and arranged for entraining liquid mixture in the chamber (12) in the rotation of the vessel,
- means for maintaining a free liquid surface of the liquid mixture in the chamber (12) at a second level radially inside said first level,,
- means (25, 27, 30) for discharging of liquid mixture from the chamber (12) at a level radially inside said first level,
- means (20) for discharge of gas from the liquid free part of the chamber (12), and
- equipment (43) for maintaining of a gas pressure in the liquid free part of the chamber (12), which is lower than said predetermined pressure.

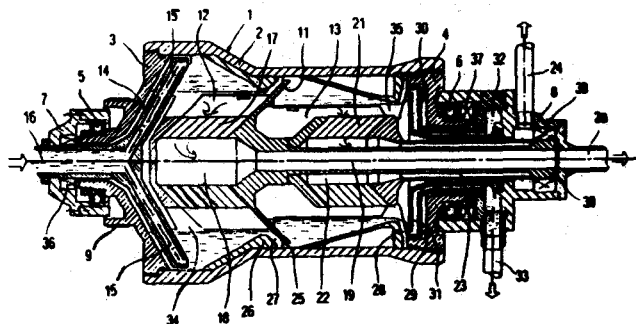


Fig. 1

Compl. Specn. 17 Pages.

Drgs. 3 Sheets.

CLASS : 172-Cx; F.  
Int. Cl. : D 01 g 9/00.

168010

Ind. Cl. : 69-D1—[GROUP-LIX(1)]  
Int. Cl. : B 41 L 29/18.

168011

# AN APPARATUS FOR IDENTIFYING FOREIGN BODIES INSIDE OR BETWEEN TEXTILE FIBRE FLOCKS/TUFTS AND THEIR REMOVAL.

Applicant : TRUTZCHLER GMBH & CO. KG., OF  
DUVENSTR. 82-92, D-4050, MONOCHENGLADBACH 3, WEST  
GERMANY.

Inventor : FERDINAND LEIFELD.

Application No. 949/Cal/1987 filed on December 03, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

17 Claims.

An apparatus for identifying the foreign bodies in, and their  
removal from a mass of fibre tufts, comprising :—

- (a) a conveyor having a fibre tuft supporting surface;
- (b) means for forming a loose fibre tuft layer on said surface;
- (c) driving means for advancing the conveyor for moving the  
loose fibre layer in a conveying direction;
- (d) a foreign body detecting means arranged for scanning the  
fibre tuft layer for ascertaining a presence of a foreign body at  
a first location and including signal upon generating means  
for generating means for generating a signal upon ascertain-  
ing said presence; and
- (e) a foreign body removing means operatively connected to said  
signal generating means for removing the foreign body at a  
second location upon receipt of said signal; said second  
locating being downstream of said first location as viewed in  
said conveying direction.

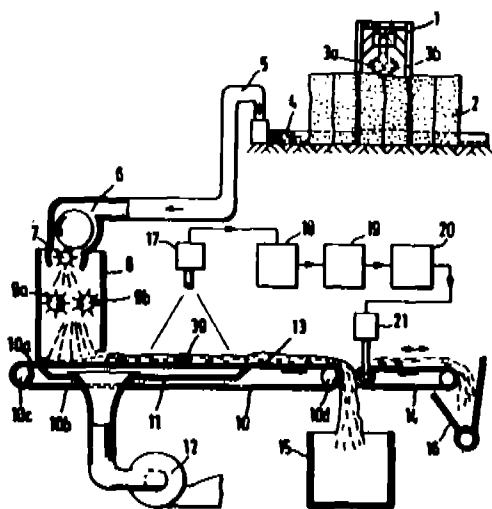


Fig. 1

Compl. Specn. 18 Pages.

Drgs. 3 Sheets.

# ASSEMBLY OF ELECTROMAGNETIC ACTUATORS FOR THE HAMMERS OF AN IMPACT PRINTER ARRANGED SIDE BY SIDE AND EXTENDING ALONG A LINE

Applicant : INTERNATIONAL BUSINESS MACHINES COR-  
PORATION, A COMPANY ORGANISED AND EXISTING  
UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED  
STATES OF AMERICA, OF ARMONK, NEW YORK 10504,  
UNITED STATES OF AMERICA.

Inventors : (1) DOUGLAS STUART BROWN, (2) WILLIAM  
ALEXANDER PATTERSON, (3) WILLIAM DUNCAN BROWN.

Application No. 597/MAS/86 filed on 28th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Madras Branch.

11 Claims.

An assembly of electromagnetic actuators for the hammers of an  
impact printer arranged side by side and extending along a line  
characterized in that each actuator comprises

a first stator part formed with at least one pole piece,

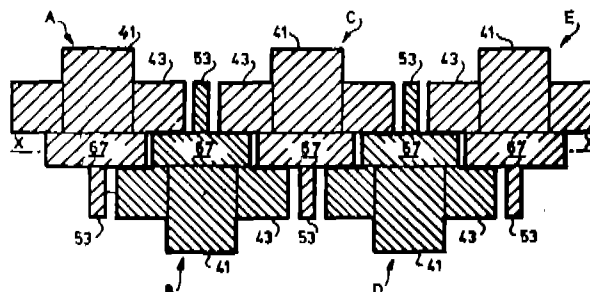
a second stator part formed with at least one pole piece and  
positioned relative to said first stator part so that said pole pieces are  
spaced apart so as to form a gap therebetween,

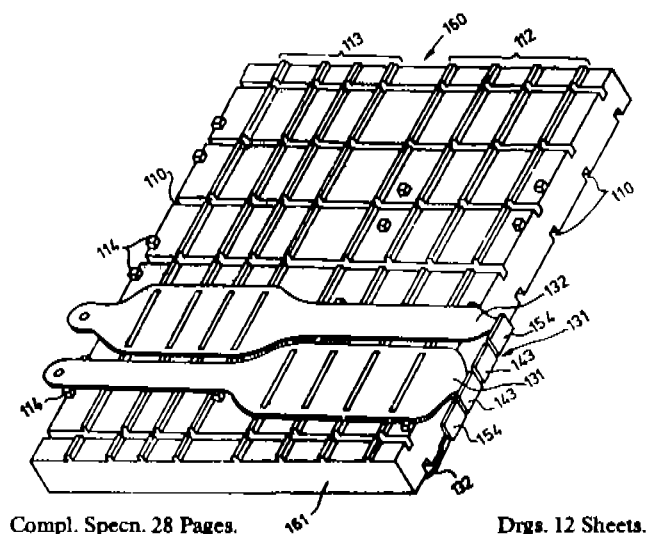
a single coil associate with one of said stator parts,

an armature member formed with a body of non-magnetisable  
material, at least one armature element of magnetisable material and  
a hammer head,

and means for supporting said armature member between said  
stator parts so that said armature element is located adjacent to  
said gap,

whereby energisation of said coil causes the generation of a flux  
which passes across said gap and through said armature element  
tending to move said armature element into said gap and to cause said  
hammer head to move into a print position, wherein the components  
of adjacent actuators are complementary in shape so that projecting  
components of each actuator engage in recessed components of the  
adjacent actuators whereby the overall length of the assembly along  
said line is less than the sum of the overall widths of the individual  
actuators.





Compl. Specn. 28 Pages.

Drgs. 12 Sheets.

Ind. Cl.: 56-G, 140-D<sub>2</sub> [GROUP V, KI (2)]  
Int. Cl.<sup>4</sup>: C 07 C 1/10.

168012

AN IMPROVED PROCESS FOR PRODUCING MINERAL OIL FROM STORING ROCKS CONTAINING CLAY MINERALS, SAND STONES SANDS AND MARLACEOUS SAND STONES BY INJECTING WATER INTO THE STORING ROCK.

Applicant: MACYAR SZENHIDROGENIPARI KUTATO-  
FEJKESZTO INTEZET, OF SZEZHALOMBATTA, PF. 32 2443-  
HUNGARY.

Inventors: (1) SANDOR DOLESCHALL, (2) GYORGY  
GAAL, (3) MIKLOS KRISTOF, (4) GYULA MILLEY, (5) TIBOR  
PAAL, (6) ZOSSEF PAPAY, (7) ANTAL SZITAR, (8) GEZA  
UDVARDI.

Application No. 635/Mas/86 filed on 6th August, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Madras Branch.

4 Claims

An improved process for producing mineral oil from storing rocks containing clay minerals, sand stones, sands and marlaceous sand stones by injecting water into the storing rock through at least one plug wherein prior to or during injection of water injecting clay mineral stabilizing composition having a concentration of 0.1 to 500 g/l, a hydrated cation diameter range between 0.13 and 0.15 nm and a coordination number 12, the said clay mineral stabilizing composition being in the form of a liquid or vapour of a solution of one or more salts of potassium, ammonium or zirconium in water or mixture of water and organic salts.

Compl. Specn. 14 Pages.

Drg. Nil.

Ind. Cl.: 172 D<sub>1</sub> [GROUP XX]  
Int. Cl.<sup>4</sup>: D 01 H 7/882.

168013

AN IMPROVED METHOD OF SPINNING YARN IN A  
FRICTION SPINNING DEVICE.

Applicant: MASCHINENFABRIK RIETER AG, A BODY  
CORPORATE ORGANISED UNDER THE LAWS OF SWIT-  
ZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors: (1) EMIL BRINER, (2) RICHARD HIERONYMI.

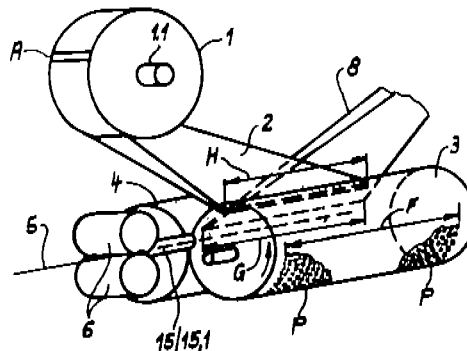
Application No. 658/Mas/86 filed on 13th August, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Madras Branch.

13 Claims

An improved method of spinning yarn in a friction spinning device in which freely floating fibres (11) are delivered in a fibre transporting passage (2) on to a friction spinning surface of a friction spinning means (3, 4) and are forwarded on this friction spinning surface to a yarn formation position (7) from which a yarn (5) is withdrawn by yarn withdrawal means (6), the improvement being that during the start of spinning operation following successive steps of:

- fibres (11) are forwarded to the yarn formation position (7) and are twisted to a lap (12) of substantially predetermined size,
- and the lap (12) is forwarded by at least an airstream towards the yarn withdrawal means (6),
- and thereafter the lap (12), and the yarn (5) adjoining thereon, are caught by a yarn takeup means after the yarn withdrawal means (6).



Compl. Specn. 16 Pages.

Drgs. 4 Sheets.

Ind. Cl.: 158-E<sub>24</sub>—[GROUP-LII(2)]  
Int. Cl.<sup>4</sup>: B 61 F 5/30; 5/52.

168014

A RAILWAY TRUCK WITH LONGITUDINALLY SPACED  
WHEELSETS

Applicant: AMSTED INDUSTRIES INCORPORATED, 3700  
PRUDENTIAL PLAZA CHICAGO, ILLINOIS 60601, A COR-  
PORATION OF DELAWARE, U.S.A.

Inventors: (1) HARRY W. MULCAHY, (2) STANLEY  
KARBOWNICZEK.

Application No. 691/Mas/86 filed on August 28, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972) Patent Office, Madras Branch.

## 8 Claims

A railway truck with longitudinally spaced wheelsets each having an axle, wheels, and bearings mounted thereon, a pair of laterally spaced side frames each having pedestal jaws depending from pedestal roof at each end of said sideframe for accommodating said bearing on said axle, a bearing adapter disposed between said pedestal jaws and mounted on said bearings, characterised in that

an elastomeric device disposed between said bearing adapter and said pedestal roof,

said elastomeric device having an elastomeric pad; interposed between the opposing surfaces of an upper plate and a lower plate,

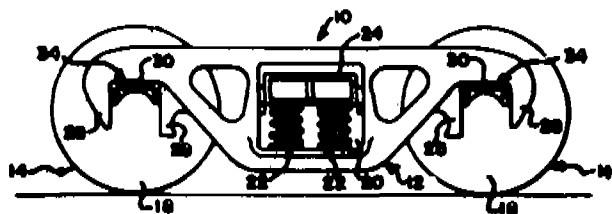
planar surfaces formed on the exposed surfaces of said upper and lower plates,

a first planar surface on said pedestal roof engageable in face-to-face contact with said planar surface of said upper plate,

a second planar surface on said bearing adapter matingly engageable with said planar surface on said lower plate,

a first-threaded fastening means on said lower plate for threadably fastening said elastomeric device to said bearing adapter to hold said planar surface on said lower plate in firm face-to-face engagement with said second planar surface,

and a second threaded fastening means extending through said pedestal roof into contact with said upper plate for holding said planar surface on said upper plate in firm face-to-face engagement with said first planar surface.



Compl. Specn. 13 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 84-G—[GROUP-XXXI]

168015

Int. Cl.<sup>4</sup> : C 01 B 3/26

# AN IMPROVED APPARATUS AND PROCESS FOR PRODUCING SYNTHESIS GAS BY CATALYTIC REFORMING OF HYDROCARBONS WITH STEAM

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY OF CAREL VAN BYLANDT LAAN 30, THE HAGUE, THE NETHERLANDS.

Inventor : SWAN TIONG SIE

Application No. 692/Mas/86 filed on August 28, 1986.

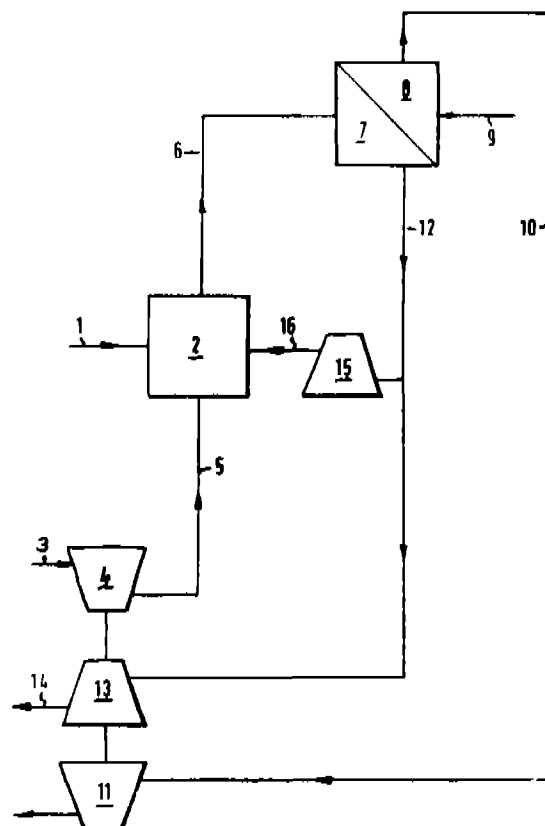
Convention date: August 30, 1985. (No. 8521608; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims

An improved apparatus for producing synthesis gas by catalytic reforming hydrocarbons with steam, said apparatus comprising :

- a reforming reaction zone equipped with heat exchange means;
- a compression zone and a combustion zone;
- means for passing steam to the compression zone wherein said steam is compressed and passed to the combustion zone;
- means for combusting said compressed gas with a fuel in said combustion zone to form a hot combustion gas effluent stream;
- means for passing said hot combustion gas effluent stream to the reforming zone wherein a hydrocarbon feed stream is reformed during which heat exchange takes place between said hot combustion gas effluent stream and said reformer zone to produce a synthesis gas;
- means for withdrawing the said effluent from said reformer zone and to form a reformer zone heat exchanged combustion gas, means for passing at least a portion of said heat exchanged combustion gas to a turbo-expander; and
- means for compressing at least another portion of said heat exchanged combustion gas and means for recycling said compressed heat exchanged combustion gas to said combustion zone.



Compl. Specn. 14 Pages.

Drsg. 1 Sheet.

Ind. Cl. : 172-B—[GROUP -XX]  
Int. Cl.<sup>4</sup> : D 01 H 7/882

168016

# A METHOD AND AN APPARATUS FOR OPEN END FRICTION SPINNING

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070 INGOLSTADT, GERMANY, A COMPANY INCORPORATED IN GERMANY.

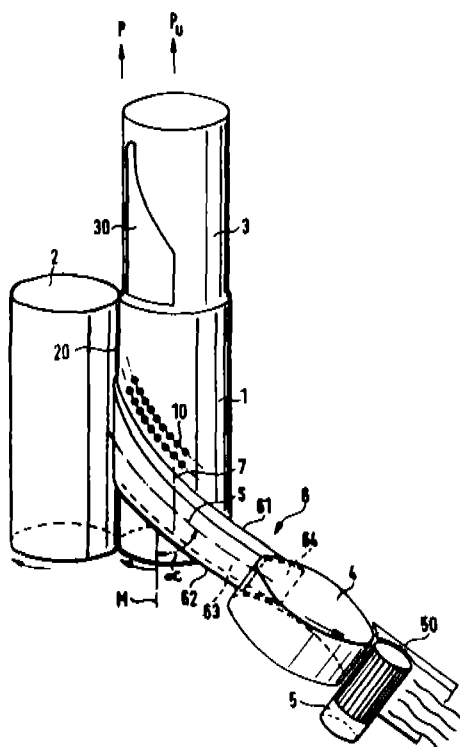
Inventor : WERNER BILNER

Application No. 698/Mas/86 filed on August 29, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 16 Claims

A method of manufacturing yarn in an open end friction spinning machine wherein fibres are fed onto the generated surface of a friction roller designed as a suction roller and are conveyed on it into a spinning nip in which they are twisted together to form a yarn, wherein the fibres are fed in direction of rotation tangentially and in a direction inclined to the generating line of the friction roller onto the generated surface so that the fibres enter the spinning nip in this position.



Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 32-F.3(a)-[GROUP-IX(1)].  
Int. Cl.<sup>4</sup> : C 07 C 47/00.

168017

# A PROCESS FOR PRODUCING ALDEHYDES BY HYDROFORMYLATION.

4—G—417 GI/90

Applicant : UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, OF OLD RIDGEBURY ROAD, DANBURY STATE OF CONNECTICUT-06817, UNITED STATES OF AMERICA.

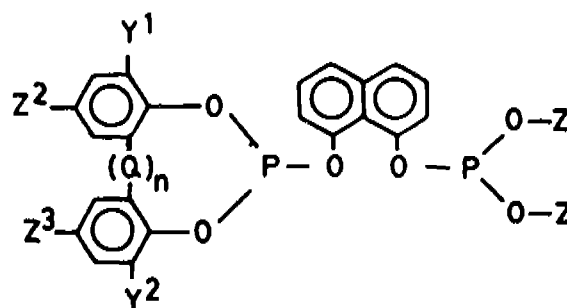
Inventors : (1) ERNST (nmn) BILLIG, (2) ANTHONY GEORGE ABATJOGLOU, (3) DAVID ROBERT BRYANT.

Application No. 712/Mas/86, filed on 4th September, 1986.

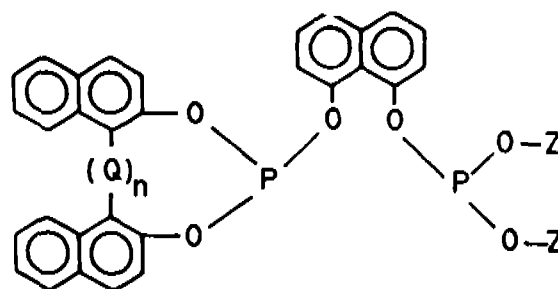
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 6 Claims

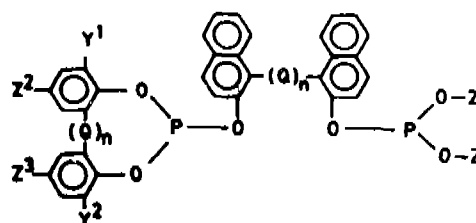
A process for producing aldehydes by hydroformylation which comprises reacting olefinically unsaturated organic compound selected from a group consisting of alpha olefins containing from 2 to 20 carbon atoms, internal olefins containing from 4 to 20 carbon atoms and a mixture of such alpha and internal olefins, with carbon monoxide and hydrogen in the presence of a group VIII transition metal complexed with carbon monoxide and a bis-phosphite ligand selected from a class consisting of formulae VII to XII of the accompanying drawings wherein in said formulae VII, VIII, IX, X, XI and XII of the drawings,



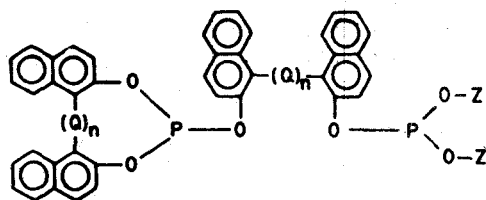
Formula-VII



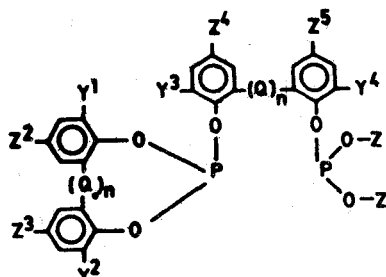
Formula-VIII



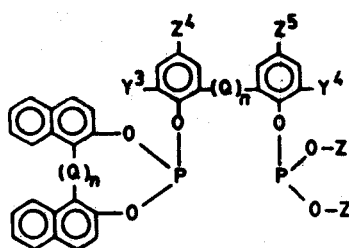
Formula-IX



Formula-X

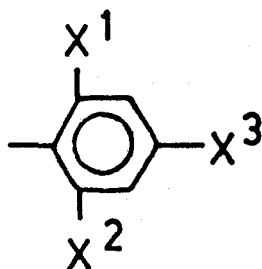


Formula-XI



Formula-XII

Q is  $\text{---CR}^1\text{R}^2$  wherein each  $\text{R}^1$  and  $\text{R}^2$  radical individually represents a radical selected from the group consisting of hydrogen, alkyl of 1 to 12 carbon atoms phenyl, tolyl and anisyl, wherein each  $\text{Y}^1, \text{Y}^2, \text{Y}^3, \text{Y}^4, \text{Z}^1, \text{Z}^2, \text{Z}^3, \text{Z}^4$  and  $\text{Z}^5$  group individually represents a radical selected from the group consisting of hydrogen, an alkyl radical having from 1 to 18 carbon atoms, phenyl, benzyl, cyclohexyl, 1-methylcyclohexyl, cyano, halogen, nitro, trifluoromethyl, hydroxy, carbonyloxy, amino, acyl, phosphonyl, oxycarbonyl, amido, sulfinyl, sulfonyl, silyl, alkoxy and thionyl radicals and wherein each Z group individually represents an identical or different radical selected from the group consisting of unsubstituted alkyl radicals and an aryl radical having the formula XIII of the accompanying drawings, wherein



Formula-XIII

each  $\text{X}^1, \text{X}^2$ , and  $\text{X}^3$  radical individually represents a radical selected from the group consisting of hydrogen, an alkyl radical having 1 to 18 carbon atoms, phenyl, benzyl, cyclohexyl, 1-methylcyclohexyl, cyano, halogen, nitro, trifluoromethyl, hydroxy, carbonoxy, amino, acyl, phosphonyl, oxycarbonyl, amido, sulfinyl, silyl, alkoxy and thionyl radicals; and wherein n has a value of 0 or 1;

the said reaction is carried out at a temperature in the range of from about  $50^\circ\text{C}$  to  $120^\circ\text{C}$ , a total gas pressure of hydrogen, carbon monoxide and olefinically unsaturated organic compound of from about 1 to about 1500 psia, a hydrogen partial pressure of from about 15 to about 160 psia., a carbon monoxide partial pressure of from about 1 to about 120 psia., and wherein the reaction medium contains from about 4 to about 100 moles of said bis-phosphite ligand per mole of rhodium in said medium.

Compl. Specn. 87 Pages.

Drgs. 45 Sheets.

Ind. Cl. : 123 [GROUP I (4)].  
Int. Cl.<sup>4</sup> : C 05 C 9/00.

168018

#### PROCESS FOR PREPARING UREA-GYPSUM BY UREA MELT GRANULATION TECHNIQUE.

Applicant : MADRAS FERTILIZERS LIMITED, AN INDIAN PUBLIC SECTOR COMPANY, MANALI, MADRAS-600 068, TAMIL NADU, INDIA.

Inventors : (1) T. R. SABAPATHY, (2) T. S. VISWANATHAN, (3) M. S. RAJAPPA, (4) JEYASINGH BENNETT, (5) S. BALASUBRAMANIAN, (6) R. S. V. SAMPATH.

Application No. 849/Mas/86, filed on 29th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A process for preparing Urea-Gypsum Granules by Urea-Melt Granulation Technique based on urea and gypsum as major constituents by spraying molten urea or a slurry containing molten urea and gypsum on a moving bed of either gypsum or a mixture of solid urea and gypsum wherein the weight ratio of melt to solid is in the range of 1 : 1.5 to 1 : 2.5 and granulating the resultant fertiliser compositions in the temperature range of  $70\text{--}120^\circ\text{C}$  with the ratio of urea to gypsum in the final product being such that the nitrogen content of the final product is in the range of 25 to 42% and coating the granular fertiliser product in a conventional way with conditioners like oil, talc or clay or their combination for protection against damage by moisture.

Compl. Specn. 10 Pages.

Drg. 1 Sheet.

Ind. CLASS : 90-H & I-[GROUP-XXXVI].  
Int. Cl.<sup>4</sup> : C 03 C 3/00, C 03 B 5/16.

168019

#### A METHOD FOR THE PRODUCTION OF A GLASS FOR OPTICAL AND/OR OPHTHALMIC APPLICATIONS.

Applicant : CORNING GLASS WORKS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF SULLIVAN PARK, FR-212, CORNING, NEW YORK-14831, U.S.A.

Inventors : (1) JEAN EMILE BOUDOT, (2) JEAN-PIERRE MAZEAU, (3) MICHEL PRASSAS.

Application No. 883/Mas/86, filed on 12th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 3 Claims

A method for the production of a glass for optical and/or ophthalmic applications having an index of refraction between 1.78-1.82, an Abbe number greater or equal to 31, and a density less than 3.80 g/cm<sup>3</sup> which it consists essentially, expressed in terms of weight percent on the oxide basis, of :

SiO <sub>2</sub>	15-30	CaO	15-28
B <sub>2</sub> O <sub>3</sub>	2-17	SrO	0-11
SiO <sub>2</sub> + B <sub>2</sub> O <sub>3</sub>	24-36	BaO	0-11
Al <sub>2</sub> O <sub>3</sub>	0-6.5	MgO +	16-33
		CaO + SrO +	
		BaO	
Li <sub>2</sub> O	0-5	ZnO	0-11
Na <sub>2</sub> O	0-5	La <sub>2</sub> O <sub>3</sub>	16-30
K <sub>2</sub> O	0-5	ZrO <sub>2</sub>	0-10
Li <sub>2</sub> O + Na <sub>2</sub> O +	0-6	Nb <sub>2</sub> O <sub>5</sub>	5-26
K <sub>2</sub> O			
MgO	0-6	TiO <sub>2</sub>	0-14

in which a glass forming batch appropriate to provide such glass is melted at a temperature of from 1275-1325°C the melt heated to 1350-1400°C to homogenize and fine the melt, the heated melt is cooled to a viscosity adequate for casting, cast into the form of a bar and then annealed at 700-750°C.

Compl. Specn. 15 Pages.

Drg. Nil.

Ind. CLASS : 172-D\*-[GROUP-XX].  
Int. Cl.<sup>4</sup> : D 01 H 5/28, D 02 G 1/04.

168020

### AN IMPROVED METHOD AND DEVICE FOR SPINNING YARN FROM SLIVER.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070 INGOLSTADT, GERMANY, A GERMAN COMPANY.

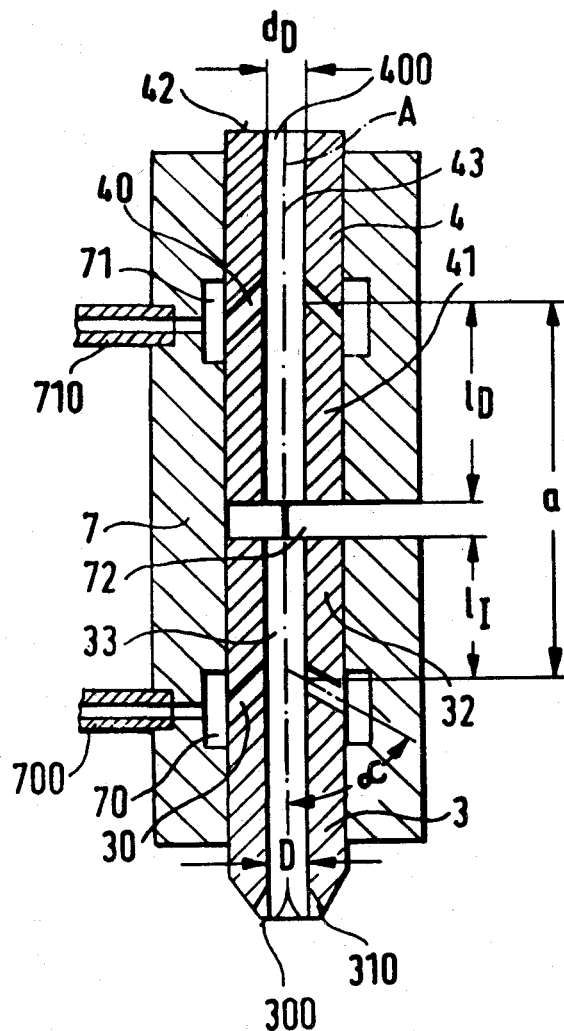
Inventors : (1) PETER ARTZT, (2) HARALD DALLMANN, (3) KURT ZIEGLER, (4) GERHARD EGBERS.

Application No. 959/Mas/86, filed on 16th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 24 Claims

An improved method of spinning sliver which is subjected to at least one preliminary draft and a main draft in a drawing unit and subsequently spun into a yarn in a pneumatic torsion device, wherein during the draft the sliver is condensed to a minimum width (B<sub>2</sub>) which is at least 1.5 times the diameter (D) of the torsion device, and after spinning condensed the sliver is not additionally condensed before being twisted while retaining the aforementioned diameter (D).



Compl. Specn. 26 Pages.

Drgs. 5 Sheets.

NAME INDEX OF APPLICANTS FOR PATENTS FOR 1989  
(Nos. 1/Cal/89 to 1072/Cal/89; 1/Bom/89 to 357/Bom/89; 1/Mas/89 to 953/Mas/89; 1/Del/89 to 1266/Del/89).

Name & Appln. No.

—A—

A. Ahlstrom Corporation.—123/Mas/89, 216/Mas/89, 600/Mas/89.

AB Akerlund & Rausing.—929/Mas/89.

ADC Telecommunication—Inc. 289/Cal/89.

A.E. Bishop & Associates Pty. Ltd.—121/Cal/89, 870/Cal/89.

AGIP S.p.A.—767/Mas/89.

AKT Consultants Pty. Ltd.—1011/Del/89.

A. Nattermann & Cie GmbH.—687/Del/89.

Name & Appln. No.	Name & Appln. No.
A—Contd.	A—Contd.
Abex Corporation.—264/Maa/89.	Akzo, N. V.—669/Maa/89.
Ab Idea.—449/Cal/89.	Alasinger, M.—278/Maa/89.
Abplanalp, R. H.—163/Maa/89, 377/Maa/89.	Albrecht Wuthrich Maschinen & Machanik AG.—90/Maa/89.
Abro Balancing Machines (P) Ltd.—1113/Del/89.	Alcan International Ltd.—54/Del/89, 111/Maa/89, 112/Maa/89, 350/Del/89, 424/Del/89, 425/Del/89, 513/Del/89, 678/Del/89, 700/Del/89, 1209/Del/89.
Abai, F.—517/Del/89.	Alcatel Cit.—396/Del/89.
Abugov, G.P.—562/Cal/89.	Alfa-Laval Food & Dairy Engineering ab.—165/Cal/89.
Acco World Corporation.—602/Maa/89, 603/Maa/89.	Alfa-Laval Thermal AB.—372/Cal/89.
Acc, R. S.—297/Cal/89.	Alt, M. M.—575/Maa/89, 576/Maa/89.
Acharyya, N. C.—410/Cal/89.	Allegheny Ludlum Corporation.—374/Del/89, 542/Del/89, 543/Del/89.
Acharya, S. P.—187/Bom/89.	Allen-Bradley Co., Inc.—776/Del/89.
Acumeter Laboratories, Inc.—221/Del/89, 577/Del/89, 699/Del/99.	Allevard Industries S. A.—725/Del/89.
Addas Fabrique De Chaussures De Sport Sarl.—157/Del/89.	Allied Signal Inc.—163/Del/89, 523/Del/89, 721/Del/89, 769/Del/89, 818/Del/89, 845/Del/89, 874/Del/89, 880/Del/89, 1027/Del/89, 1037/Del/89.
Adolf Herbert Astor Zielinski.—448/Del/89.	Allied Tube & Conduit Corporation.—353/Maa/89, 771/Maa/89.
Adrian March Ltd.—334/Maa/89.	Alpha Bete Technology.—905/Cal/89.
Aeg Kabel Aktiengesellschaft.—750/Cal/89, 751/Cal/89.	Alphonsus Gerardus Gulielmus Veldman.—666/Cal/89.
Adams, G. W.—833/Maa/89.	Alsthom.—259/Del/89, 493/Del/89.
Advanced Manufacturing & Development.—325/Cal/89.	Alsthom Fluides.—1258/Del/89.
Aerospatiale Societe Nationale Industrielle, S. A.—101/Cal/89.	Altrack Ltd.—539/Maa/89.
Aerospatiale Societe Nationale Industrielle.—10/Del/89, 126/Cal/89, 235/Del/89, 377/Del/89, 443/Maa/89, 485/Del/89, 1260/Del/89.	Aluminium Pechiney.—456/Maa/89, 490/Cal/89.
Aerospatiale Societe Du Petrole.—444/Maa/89.	Ambitious Gold Nib Manufacturing Co. Pvt. Ltd.—239/Del/89.
Affival.—271/Cal/89.	American Cynamid Co.—955/Cal/89.
Agarwal, A. S.—387/Cal/89.	American Telephone & Telegraph Co.—343/Maa/89, 420/Maa/89, 574/Maa/89.
Agarwal, K. B.—260/Bom/89.	Amin, S. K.—160/Bom/89.
Agrawal, G. D.—440/Del/89.	Ammonia Casale S. A.—489/Maa/89, 568/Maa/89, 764/Maa/89, 900/Maa/90, 901/Maa/89, 902/Maa/89.
Agrawal, M. D.—105/Bom/89, 106/Bom/89, 226/Bom/89, 227/Bom/89, 228/Bom/89, 229/Bom/89, 260/Bom/89.	Amoco Corporation.—438/Del/89, 742/Del/89, 1141/Del/89.
Ahuja, B. M.—308/Bom/89.	Anand, S.—96/Del/89.
Air Products & Chemicals, Inc.—80/Maa/89, 103/Cal/89.	Aneja, R. P.—475/Cal/89, 476/Cal/89.
Aisa Automation Industrielle S.A.—111/Cal/89.	Anjaiah, M.—620/Maa/89.
Akerlund & Rausing Licens Aktiebolag.—635/Del/89, 973/Del/89, 1058/Del/89.	
Aktiebolag, S.—276/Maa/89.	

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A—Contd.	A—Contd.
Apex Medical Technologies, Inc.—23/Maa/89, 24/Maa/89.	Audco India Ltd.—475/Mas/90.
Apte, M. M. (Mrs.)—335/Bom/89.	Ausimont S.r.l.—265/Cal/89, 266/Cal/89, 267/Cal/89, 443/Cal/89, 455/Cal/89, 256/Cal/89.
Anneler, H.W. Dr.—617/Cal/89.	Australian Commercial Research & Development Ltd.—708/Cal/89, 816/Cal/89.
Aptekar, U.—193/Bom/89, 194/Bom/89, 195/Bom/89, 196/Bom/89, 197/Bom/89, 198/Bom/89, 199/Bom/89, 200/Bom/89.	Australian Gas Light Co. The—1066/Del/89.
Application Art Laboratoriea Co. Ltd.—748/Cal/89.	Australian Meat & Live-Stock Research & Development Corporation.—467/Mas/89.
Apte, S. M.—335/Bom/89.	Australian Nation University.—233/Cal/89, 620/Cal/89.
Ardel International S.A.—488/Cal/89.	Australian Wire Industries Pty. Ltd.—595/Maa/89, 596/Maa/89, 660/Maa/89.
Ardent Computer Corporation.—190/Del/89, 191/Del/89, 372/Del/89.	Australian Ozone Corporation Pty. Ltd.—975/Cal/89.
Argyle Diamond Sales Ltd.—84/Cal/89.	Avery International Corporation.—544/Del/89, 673/Mas/89.
Armco Advanced Materials Corporation.—141/Cal/89, 142/Cal/89, 143/Cal/89, 144/Cal/89, 979/Cal/89.	Azerbaijdzhansky Nauchno-Isledovatel'sky Institut Vodnykh Problem.—603/Cal/89.
Armco Inc.—89/Del/89, 639/Cal/89.	Aziz, A.—98/Bom/89.
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Arora, D. S.—253/Del/89.	BASF Corporation.—291/Maa/89, 292/Maa/89.
Arora, H. S.—328/Del/89.	BASF Aktiengesellschaft.—42/Mas/89, 188/Mas/89, 515/Mas/89, 607/Mas/89, 697/Mas/89, 793/Mas/89.
Asahi Denka Kogyo Kabushiki Kaisha.—504/Del/89.	BASF Lacke—207/Del/89, 736/Mas/89.
Asarco Incorporated.—688/Del/89.	B.F. Goodrich Co., The.—69/Del/89, 113/Del/89, 150/Del/89, 162/Del/89, 677/Del/89, 679/Del/89, 709/Del/89, 743/Del/89, 789/Del/89, 831/Del/89, 918/Del/89, 960/Del/89.
Asea Brown Boveri Ltd.—49/Maa/89, 50/Maa/89, 51/Maa/89, 85/Maa/89, 260/Maa/89, 269/Maa/89, 385/Maa/89, 485/Maa/89, 606/Maa/89, 676/Maa/89, 690/Maa/89, 718/Maa/89, 744/Maa/89.	BIC Corporation.—646/Mas/89.
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Baroid Technology, Inc.—1038/Del/89, 1071/Del/89.	Bhalla, S.S.—174/Bom/89.
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Bhattacharyya, B.C.—1003/Cal/89.  
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 Biolandes—32/Del/89.  
 Biomedical Research Institute.—1021/Cal/89.  
 Bioquip Australia Pty. Ltd.—788/Mas/89.  
 Bioresearch, Inc.—188/Cal/89.  
 Biotest Pharma GmbH.—222/Cal/89.  
 Bisarya, S.C.—697/Del/89.  
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 Birla Research Institute for Applied Science—39/Bom/89.  
 Biuro Projektow I Realizacji Inwestycji Przemyslu syntezy Chemicznej (PROSYNCHM)—722/Del/89.  
 Biuro Studiow Projektow I Realizacji Inwestycji Przemyslu Nieorganicznego "BIPROK WAS".—943/Del/89.  
 Blakrishnan, K.B.—538/Mas/89.  
 Blatt, D.W.E.—254/Del/89.  
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 Bhaskar, B.—244/Bom/89.

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Bhide, V.C.—218/Bom/89.  
 Board of Governors of Wayne State University. The—454/Mas/89.  
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 Rose, R.—273/Cal/89.  
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 Bostik Ltd.—1219/Del/89.  
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 Bowthorpe-Hellermann Ltd.—1011/Cal/89.  
 Bradbury, F. Brady International Corporation—570/Cal/89, 851/Cal/89.  
 British Aerospace Public Ltd. Co.—779/Mas/89.  
 British Gas PLC.—707/Mas/89.  
 British Petroleum Co. PLC. The.—72/Mas/89.  
 British Steel PLC.—843/Del/89.  
 British Telecommunications PLC.—227/Mas/89.  
 Brough, T.—307/Mas/89.  
 Bucyrus-Erie Co.—607/Cal/89.  
 Bukh Meditec A/S.—751/Del/89.

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## B—Contd.

Bunawerke Hula GMBH.—503/Maa/89.  
 Burg, D.E.—292/Cal/89.  
 Burns & Russel Co. of Baltimore City. The.—926/Cal/89.  
 Bursian, N.R.—484/Del/89.  
 Business Forms Ltd.—817/Cal/89, 818/Cal/89, 819/Cal/89,  
 820/Cal/89.

## —C—

C. R. Bard, Inc.—159/Maa/89, 296/Del/89, 373/Del/89, 375/Del/89,  
 561/Del/89, 660/Del/89, 916/Del/89, 1163/Del/89, 1164/Del/89,  
 1165/Del/89, 1167/Del/89.  
 CSIR.—750/Maa/89.  
 CTB, Inc.—41/Maa/89, 879/Maa/89.  
 Cabot Corporation.—585/Maa/89, 661/Maa/89, 869/Maa/89,  
 912/Maa/89.  
 Calgene Inc.—113/Maa/89.  
 Cadbury Schweppes Proprietary Ltd.—770/Cal/89.  
 Cambridge Bioscience Corporation.—377/Cal/89.  
 Cameron Forge Co.—271/Maa/89.  
 Camphor & Allied Products, Ltd.—240/Bom/89, 241/Bom/89.  
 Canadian Ultra Pressure Services Inc.—417/Del/89.  
 Caoutchouc Manufacture Et Plastiques.—356/Del/89.  
 Capiyuard Enterprises S. A.—941/Cal/89.  
 Carl Hurth, Maschinen-Und Zahnradfabrik GMBH & Co.—  
 779/Del/89.  
 Carow International Inc.—176/Cal/89.  
 Carrier Corporation.—8/Cal/89, 1262/Del/89.  
 Carrington Laboratories, Inc.—231/Cal/89, 611/Cal/89.  
 Catalytica, Inc.—342/Cal/89.  
 Caterpillar Inc.—4/Maa/89, 91/Maa/89, 381/Maa/89, 438/Maa/89,  
 439/Maa/89, 772/Maa/89.  
 Cariel, L. 569/Del/89.  
 Coat Tyres of India Ltd.—897/Maa/89.  
 Coerta, J. G. C.—100/Cal/89.  
 Cenefill Pty. Ltd.—402/Cal/89.

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Central Power Research Institute.—563/Maa/89.  
 Centre Scientifique Et Technique Du Batiment.—35/Del/89.  
 Centre Stephandia De Recherches Macaniques Hydromecanique  
 Et Frottement.—837/Del/89.  
 Cff Gmbh Verfahrenstechnik Maschinenbau.—947/Cal/89.  
 Chakraborty, A. Mra.—1033/Cal/89.  
 Chakraborty, P. Sri.—371/Cal/89.  
 Chakraborty, S. K.—1033/Cal/89.  
 Chalapathi, G. V. Dr.—633/Maa/89.  
 Chandramohanam, M. R.—922/Maa/89.  
 Chandran, T. G.—520/Maa/89.  
 Chandra, R.—182/Bom/89, 183/Bom/89, 1221/Del/89.  
 Chandrashekar, V.—155/Maa/89, 156/Maa/89, 211/Maa/89.  
 Channapragada, R. S.—143/Del/89.  
 Chaolai, F.—411/Maa/89.  
 Charbonnages De France (Etablissement Public).—166/Maa/89,  
 608/Maa/89.  
 Charegaonkar, A.—180/Bom/89, 191/Bom/89.  
 Charles, D. M. Mr.—866/Maa/89.  
 Charles Stark Draper Laboratory Inc. The.—204/Maa/89,  
 476/Maa/89.  
 Charles Sterk Draper Laboratory The.—694/Maa/89, 695/Maa/89.  
 Chaudhary, A. S.—328/Bom/89.  
 Chaudhary, L.—299/Del/89.  
 Chaudhary, V. K. Dr.—535/Maa/89.  
 Chaugule, P. J. Shri.—217/Bom/89.  
 Chauhan, B. P. S.—160/Del/89.  
 Chauhan, R. S.—33/Bom/89.  
 Chauhan, S.—822/Del/89.  
 Chauhan, S. S. R.—211/Bom/89.  
 Chawla, S. K.—3/Del/89, 144/Del/89.  
 Chawla, V. K.—206/Bom/89.  
 Chee, S. W.—94/Cal/89.

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Chelyabinsky Institut Mekhanizatsii I Elektrifikatsii Selskogo Khozyaistva.—737/Del/89.	Clyde, S.—524/Cal/89.
Chemfab Alkalies Ltd.—898/Mas/89.	Cjirwatkar, N. D.—9/Bom/89.
Chemical Waste Management, Inc.—642/Cal/89.	Coflexip.—180/Del/89.
Chemische Fabrik Stockhausen GMBH.—571/Del/89.	Cogema.—673/Cal/89.
Chen, C. S.—352/Bom/89.	Cogentech, Inc.—877/Mas/89.
Cheng, C. Y. E.—316/Mas/89.	Cogent Ltd.—247/Mas/89.
Cheng, S. W.—316/Mas/89.	Cogifer (de generale D' installations ferroviaires) B. A.—764/Del/89.
Cheng, W. C.—316/Mas/89.	Colah, H. K.—277/Bom/89.
Chen, Y. F.—442/Mas/89.	Cole, H. W. Jr.—127/Mas/89.
Cherepovetsky Metallurgichesky Kombinat Imeri.—568/Cal/89.	Colgate Palmolive Co.—5/Del/89, 71/Del/89, 200/Del/89, 209/Del/89, 245/Del/89, 337/Del/89, 382/Del/89, 774/Del/89, 798/Del/89, 847/Del/89, 871/Del/89, 872/Del/89, 909/Del/89, 911/Del/89, 1052/Del/89, 1053/Del/89, 1054/Del/89, 1222/Del/89, 1223/Del/89, 1224/Del/89, 1225/Del/89.
Chevron Research Co.—32/Mas/89, 530/Mas/89, 531/Mas/89, 565/Mas/89, 749/Mas/89.	Colortech Inc.—749/Del/89.
Chief Controller Research & Development The.—479/Del/89, 825/Del/89.	Colortronic Reinhard GmbH & Co. Kg.—11/Cal/89.
China Petrochemical Corporation.—98/Cal/89.	Columbian Chemicals Co.—413/Cal/89, 598/Cal/89, 1023/Cal/89, 1024/Cal/89.
Chin-Pei Chen.—926/Mas/89.	Comalco Ltd.—108/Mas/89.
Chordiya, A. S.—246/Bom/89.	Comalco Aluminium Ltd.—1077/Del/89.
Chordiya H. S.—246/Bom/89.	Combustion Engineering Inc.—432/Cal/89, 504/Cal/89, 909/Cal/89.
Chordiya, S. S.—246/Bom/89.	Commonwealth of Australia The.—186/Del/89, 187/Del/89.
Chloride Group Public Ltd.—397/Mas/89.	Communications Satellite Corporation.—346/Cal/89, 441/Cal/89.
Chorpade, V.—210/Mas/89.	Compagnie Europeenne Du Zirconium Cezus.—106/Mas/89.
Choudhary, A. S.—328/Bom/89.	Compagnie Europeene Pour L'—1249/Del/89.
Chouragadey, G. L.—376/Del/89.	Compagnie Francaise De Mokta—1246/Del/89.
Chowdhri, B. K.—124/Cal/89.	Compagnie Generale De Etablissements Michelin-Michelin & CIE.—672/Mas/89, 679/Mas/89.
Chowdhary, C. B.—94/Bom/89.	Compagnie Generale Des Etablissements Michelin-Michelin & CIE.—53/Mas/89, 453/Mas/89, 753/Mas/89.
Christian, R.—65/Mas/89.	Compagnie Generale Compagnie Industrielle De Tubes Et Lampes Electriques Citel.—724/Del/89.
Christie, H. P.—524/Mas/89.	Compair Reavell Ltd.—415/Mas/89.
Chury, C. G.—82/Bom/89, 83/Bom/89.	Company 'A' Foam Ltd.—347/Cal/89.
Ciba-Geigy AG.—259/Mas/89, 528/Mas/89, 556/Mas/89, 716/Mas/89, 717/Mas/89.	Concast Standard Ag.—1052/Cal/89.
Clarence Sexton Freeman.—122/Cal/89.	
Clean-Park, Inc.—769/Cal/89.	
Clotteau, J. E.—494/Cal/89.	

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## C—Contd.

Concentric Pumps Ltd.—471/Del/89, 815/Del/89.  
 Concept R.K.K. Ltd.—347/Mas/89.  
 Concord Research Corporation.—477/Mas/89.  
 Conoco Speciality Products Inc.—403/Cal/89.  
 Connaughton, N.—22/Cal/89.  
 Contractor, E.N.—233/Bom/89.  
 Contractor, P.N.—177/Bom/89.  
 Corona Shear Holdings Ltd.—1088/Del/89.  
 Copeland Corporation.—162/Cal/89.  
 Copyguard Enterprises S.A.—916/Cal/89.  
 Corning Incorporated.—498/Mas/89.  
 Corning Ltd.—304/Mas/89.  
 Coronent-Werke Heinrich Schlerf GmbH.—555/Del/89.  
 Cosmo Films Ltd.—932/Del/89.  
 Cosmo Holdings Pty. Ltd.—1018/Del/89.  
 Costal Mud Inc.—61/Cal/89.  
 Council of Scientific & Industrial Research—6/Del/89, 7/Del/89, 38/Del/89, 107/Del/89, 153/Del/89, 185/Del/89, 272/Del/89, 273/Del/89, 274/Del/89, 275/Del/89, 283/Del/89, 284/Del/89, 285/Del/89, 346/Del/89, 347/Del/89, 348/Del/89, 413/Del/89, 414/Del/89, 418/Del/89, 449/Del/89, 450/Del/89, 496/Del/89, 497/Del/89, 498/Del/89, 500/Del/89, 510/Del/89, 511/Del/89, 512/Del/89, 534/Del/89, 550/Del/89, 551/Del/89, 552/Del/89, 553/Del/89, 590/Del/89, 591/Del/89, 593/Del/89, 611/Del/89, 652/Del/89, 653/Del/89, 654/Del/89, 655/Del/89, 656/Del/89, 657/Del/89, 658/Del/89, 659/Del/89, 671/Del/89, 672/Del/89, 673/Del/89, 674/Del/89, 734/Del/89, 773/Del/89, 795/Del/89, 796/Del/89, 829/Del/89, 850/Del/89, 851/Del/89, 852/Del/89, 853/Del/89, 854/Del/89, 879/Del/89, 893/Del/89, 894/Del/89, 895/Del/89, 896/Del/89, 897/Del/89, 898/Del/89, 899/Del/89, 900/Del/89, 901/Del/89, 902/Del/89, 903/Del/89, 904/Del/89, 905/Del/89, 906/Del/89, 946/Del/89, 947/Del/89, 948/Del/89, 949/Del/89, 950/Del/89, 951/Del/89, 952/Del/89, 953/Del/89, 954/Del/89, 955/Del/89, 956/Del/89, 957/Del/89, 958/Del/89, 959/Del/89, 988/Del/89, 1031/Del/89, 1032/Del/89, 1033/Del/89, 1043/Del/89, 1044/Del/89, 1045/Del/89, 1046/Del/89, 1047/Del/89, 1048/Del/89, 1049/Del/89, 1050/Del/89, 1051/Del/89, 1096/Del/89, 1097/Del/89, 1098/Del/89, 1099/Del/89, 1100/Del/89, 1101/Del/89, 1102/Del/89, 1103/Del/89, 1104/Del/89, 1105/Del/89, 1106/Del/89, 1107/Del/89, 1108/Del/89, 1109/Del/89, 1110/Del/89, 1111/Del/89, 1112/Del/89, 1168/Del/89, 1169/Del/89, 1170/Del/89, 1171/Del/89, 1172/Del/89, 1173/Del/89, 1174/Del/89, 1175/Del/89, 1180/Del/89, 1181/Del/89, 1182/Del/89, 1183/Del/89, 1230/Del/89, 1231/Del/89, 1232/Del/89, 1233/Del/89, 1234/Del/89, 1235/Del/89, 1236/Del/89, 1237/Del/89, 1238/Del/89, 1239/Del/89, 1240/Del/89, 1241/Del/89, 1242/Del/89, 1243/Del/89, 1251/Del/89, 1252/Del/89, 1253/Del/89, 1254/Del/89, 1255/Del/89, 1256/Del/89, 1257/Del/89.

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Courtaulds Coatings Ltd.—607/Del/89, 922/Del/89, 924/Del/89.  
 Courtaulds Films & packaging (Holdings) Ltd.—726/Del/89.  
 Courtaulds PLC.—606/Del/89.  
 Coventry City Council—404/Del/89.  
 Coventry Polytechnic Higher Education Corporation—404/Del/89.  
 Cra Services Ltd.—393/Cal/89, 1010/Cal/89.  
 Crepelle, T.—379/Del/89.  
 Crestmoore Ltd.—102/Del/89.  
 Crompton Greaves Ltd.—22/Bom/89, 95/Bom/89, 162/Bom/89, 342/Bom/89.  
 Croning Glass Works.—244/Mas/89.  
 Cultor Ltd.—322/Mas/89.  
 Cwens-Illinois Closure Inc.—942/Mas/89.  
 Cyprus Industrial Minerals Co.—382/Cal/89, 383/Cal/89.

## —D—

D' Andrea S.p.A.—961/Cal/89.  
 D.C.P. AF 1988 A/s.—91/Del/89.  
 DCRS (Barbados Ltd.—723/Mas/89.  
 DCW Ltd.—254/Bom/89.  
 D.W.N. Vortoil Servco Pty. Ltd.—294/Cal/89.  
 Dadhwal, S.—136/Del/89.  
 Daga, S.N.—615/Del/89.  
 Daihen Corporation—557/Mas/89.  
 Daiichi Pharmaceutical Co.—650/Mas/89.  
 Daiichi Seiyaku Co. Ltd.—317/Mas/89.  
 Daihen Corporation—677/Mas/89.  
 Dalmine SpA.—846/Cal/89.  
 Dalvi, P.—120/Bom/89.  
 Dana Corporation—143/Mas/89, 208/Mas/89, 253/Mas/89, 295/Mas/89, 406/Mas/89, 613/Mas/89, 614/Mas/89.  
 Danismac S.A.—590/Mas/89.  
 Dantmar S.r.l.—55/Mas/89.

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D—Contd.	D—Contd.
Dartnall Engineering & Innovation Pty. Ltd.—2/Maa/89.	Desai, T.G.—18/Bom/89.
Das, C.C.—716/Cal/89.	Deshpande, P.B. Dr.—206/Bom/89.
Das, D.K.—232/Cal/89.	Deutsches Auesatzigen-Hilfewerke V.—512/Maa/89.
Das, H.P.—83/Cal/89.	Deutsche Babcock Werke Aktiengesellschaft.—389/Maa/89, 801/Maa/89.
Das, K.N.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.	Deutsche Forschungs-Und Versuchsanstalt for Luft-Und Raumfahrt E.V.—240/Cal/89.
Das, P.K.—233/Maa/89.	Devadass, C.—892/Maa/89.
Das, P.L.—62/Cal/89.	Devasundaram, J.—252/Del/89, 402/Del/89.
Das, S.K.—133/Del/89, 613/Del/89, 614/Del/89.	Deverajan, O.N.—561/Maa/89, 562/Maa/89.
Das, U.K.—137/Cal/89.	DeVilbiss Co. The—77/Del/89, 886/Del/89, 887/Del/89, 889/Del/89.
Dasgupta, S.—840/Cal/89.	Devi, V.—733/Del/89, 810/Del/89.
Datta, A.P. Sri—633/Cal/89.	Dev, S.K.—386/Cal/89.
David, T.J.—339/Del/89.	Devtech Inc.—917/Del/89.
Davis, G.D.—307/Maa/89.	Dhanish, P.B.—54/Maa/89.
Date, M.A. Dr.—166/Bom/89.	Dhara, M.—154/Del/89.
Davaa Seventy fifth Pvt. Ltd.—226/Maa/89.	Dhibey, K.—115/Bom/89.
De Beers Industrial Diamond (Proprietary) Ltd.—527/Del/89, 689/Del/89.	Dhingra, H.—919/Del/89, 920/Del/89.
De Beers Industrial Diamond Division (Proprietary) Ltd.—640/Del/89, 989/Del/89.	Dianov, I.M.—896/Cal/89.
Debreceni Mezogadasagi Gepgyarto Vallalat.—148/Cal/89.	Didier-Werke Ag.—240/Cal/89.
Deeka, D.J.—331/Cal/89.	Diehl GMBH & Co.—332/Del/89.
Degoach GMBH.—380/Maa/89.	Dimac Medical Ltd.—703/Maa/89.
Degussa Aktiengesellschaft.—344/Cal/89, 532/Cal/89, 551/Cal/89, 1025/Cal/89.	Director, All India Institute of Medical Sciences, The—223/Del/89.
De La Rue Giori S.A.—390/Del/89, 391/Del/89, 392/Del/89, 393/Del/89, 514/Del/89, 1070/Del/89.	Director The National Silk-Worm Seed Project.—88/Maa/89.
Delsey.—52/Del/89, 53/Del/89.	Dispak Pty. Ltd.—685/Maa/89.
Denbar, Ltd.—921/Cal/89.	Divekar, L.R.—329/Bom/89.
Denis, J.P.—756/Del/89.	Dnepropetrovsky Metallurgichesky Institut Imeni L.I. Brezhneva.—326/Del/89.
Deodhar Electro-Design (P) Ltd.—281/Bom/89.	Dobrovinsky, L. A.—889/Cal/89.
Deodhar, P.—234/Bom/89, 235/Bom/89.	Doduco GMBH & Co. Dr. Eugen Durrwachter.—255/Maa/89.
De, R.K.—1069/Cal/89.	Dokoupil, J.—854/Del/89.
Deora, P.S.—171/Bom/89.	Domshehev, V. A.—242/Del/89.
Derksen, L.—587/Cal/89.	Donetsky Nauchno-Issledovatel'sky Institut Chernoi Metallurgii.—568/Cal/89.

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Donetaky Politekhnicheaky Institut.—85/Cal/89, 207/Cal/89.  
 Don Reynolds International Ltd.—831/Maa/89.  
 Dorchester Enterprises Ltd.—447/Maa/89, 449/Maa/89.  
 Dorr Oliver Incorporated.—108/Del/89, 914/Del/89.  
 Dou Merrith.—404/Del/89.  
 Dow Chemical Co. The.—21/Maa/89, 70/Maa/89, 75/Maa/89, 182/Maa/89, 298/Maa/89, 350/Maa/89, 366/Maa/89, 419/Maa/89, 437/Maa/89, 471/Maa/89, 552/Maa/89, 553/Maa/89, 622/Maa/89, 761/Maa/89, 865/Maa/89, 872/Maa/89.  
 Drazil, J. V.—360/Maa/89.  
 Dresser Industries Inc.—28/Del/89, 1204/Del/89.  
 Drew Chemical Corporation.—99/Cal/89.  
 Drolia Fuels Pvt. Ltd.—26/Cal/89, 201/Cal/89.  
 Dudek, D. H.—550/Maa/89.  
 Duffelt-Smith, P. J.—10/Maa/89.  
 Dulevo S.p.A.—383/Maa/89.  
 Du Pont Canada Inc.—14/Cal/89, 442/Cal/89, 515/Cal/89, 861/Cal/89, 965/Cal/89, 989/Cal/89, 1019/Cal/89.  
 Du Pont-Mitsui Fluorochemicals Co. Ltd.—698/Maa/89.  
 Duracell International Inc.—334/Del/89, 420/Del/89.  
 Dutta, S. K.—691/Cal/89.  
 Dyckerhoff & Widmann Akitengesellschaft.—640/Cal/89.  
 Dynavac Gasellschaft Mit Beschränkter Haftung.—72/Del/89.  
 Dynetics Engineering Corporation.—723/Cal/89.

## —E—

EDAP International.—984/Del/89.  
 EGIS Gyogyszergyar.—178/Maa/89, 179/Maa/89.  
 E.I.D. Perry (I) Ltd.—655/Maa/89.  
 E.I.Du Pont De Nemours & Co.—25/Cal/89, 42/Cal/89, 45/Cal/89, 86/Cal/89, 92/Cal/89, 109/Cal/89, 145/Cal/89, 168/Cal/89, 169/Cal/89, 180/Cal/89, 181/Cal/89, 217/Cal/89, 218/Cal/89, 224/Cal/89, 225/Cal/89, 255/Cal/89, 269/Cal/89, 270/Cal/89, 280/Cal/89, 307/Cal/89, 309/Cal/89, 334/Cal/89, 374/Cal/89, 379/Cal/89, 389/Cal/89, 395/Cal/89, 412/Cal/89, 442/Cal/89, 465/Cal/89, 466/Cal/89, 479/Cal/89, 480/Cal/89, 486/Cal/89, 501/Cal/89, 527/Cal/89, 529/Cal/89, 564/Cal/89, 565/Cal/89, 566/Cal/89, 567/Cal/89, 593/Cal/89, 608/Cal/89, 609/Cal/89, 616/Cal/89, 658/Cal/89, 659/Cal/89, 684/Cal/89, 692/Cal/89, 700/Cal/89, 713/Cal/89, 714/Cal/89,

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715/Cal/89, 720/Cal/89, 726/Cal/89, 729/Cal/89, 739/Cal/89, 766/Cal/89, 862/Cal/89, 874/Cal/89, 882/Cal/89, 883/Cal/89, 886/Cal/89, 888/Cal/89, 939/Cal/89.  
 E.I.Du Pont De Nemours & Co.—949/Cal/89, 1007/Cal/89, 1034/Cal/89, 1058/Cal/89.  
 EPOC Ltd.—566/Maa/89.  
 E. R. Squibb & Sons, Inc.—288/Del/89, 483/Del/89.  
 Eaco Corporation.—639/Del/89, 965/Del/89.  
 Eagle Flask Industries Pvt. Ltd.—10/Bom/89, 11/Bom/89, 100/Bom/89, 101/Bom/89.  
 Earth Chemical Co. Ltd.—129/Del/89, 780/Del/89.  
 Eaton Corporation.—663/Cal/89, 735/Cal/89, 746/Cal/89, 1015/Cal/89.  
 Eberle Medizintechnische Elemente GmbH.—908/Maa/89.  
 Ebersolt, M.—559/Del/89, 560/Del/89.  
 Ecolab, Inc.—82/Cal/89.  
 Edap International.—868/Del/89.  
 Eirich, H.—876/Cal/89.  
 Eirich, M.G.—31/Cal/89.  
 Eirich, P.—876/Cal/89.  
 Eirich, W.—876/Cal/89.  
 Eiacher, R. E.—330/Maa/89.  
 Elcor Corporation.—118/Bom/89, 119/Bom/89, 321/Bom/89.  
 Eli Lilly & Co.—1041/Cal/89.  
 English Electric Co. of India, The.—944/Maa/89.  
 Electricity Council & Chamberlin & Hill PLC.—892/Del/89.  
 Electrosan Corporation.—757/Maa/89.  
 Elitex Konzern Textilního Strojirenství.—583/Cal/89, 676/Cal/89.  
 Electricite De France.—358/Del/89.  
 Electricity Council, The.—353/Del/89.  
 Electro Erg Ltd.—166/Cal/89.  
 Eliezer, K.—99/Maa/89.  
 Elkem A/S.—145/Maa/89, 573/Maa/89.  
 Elkom Technology A/S.—293/Maa/89.

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Ellenberger & Poenagen GmbH.—628/Maa/89, 629/Maa/89.  
 Elopak Systems Ag.—341/Cal/89.  
 Emerson Electric Co.—178/Cal/89, 179/Cal/89, 247/Cal/89, 248/Cal/89, 837/Cal/89, 838/Cal/89, 839/Cal/89.  
 Emitec Gesellschaft Fur Emissionstechnologie MBH.—17/Cal/89, 97/Cal/89, 108/Cal/89, 140/Cal/89, 147/Cal/89, 586/Cal/89, 747/Cal/89, 760/Cal/89, 768/Cal/89, 831/Cal/89, 895/Cal/89, 942/Cal/89, 1020/Cal/89.  
 Energy Conversion Devices, Inc.—268/Del/89, 832/Del/89.  
 Enichem Fibre S.p.A.—874/Maa/89.  
 Engelhard Corporation.—877/Cal/89.  
 Engineered Controls International Inc.—686/Maa/89.  
 English Electric Co. of India Ltd. The.—754/Maa/89, 755/Maa/89, 770/Maa/89.  
 Enichem Anic S.p.A.—651/Maa/89.  
 Erich-Klaus Martin.—137/Maa/89.  
 Ershov, O. S.—361/Cal/89.  
 Erwin, W.—323/Maa/89.  
 Esbee Industrial Combines (P) Ltd.—246/Bom/89.  
 Essex Environmental Industries Inc.—530/Del/89.  
 Easop, S.—109/Bom/89, 110/Bom/89.  
 Eswaran, S.V.—461/Del/89, 462/Del/89, 826/Del/89, 828/Del/89.  
 Eszaki Magyarországi Vegyiművek.—427/Maa/89.  
 Establishment Gersan.—220/Maa/89, 221/Maa/89.  
 Etablissements Vape.—661/Del/89.  
 Etablissements Public De l'etat Dit : Office National D' Etudes Et de Recherches Aerospatiales.—101/Cal/89.  
 Ethicon, Inc.—41/Cal/89, 87/Cal/89, 522/Cal/89, 632/Cal/89, 685/Cal/89, 865/Cal/89, 1064/Cal/89.  
 Etm-Engineers' Tool Manufacturing Co. Ltd.—415/Cal/89.  
 Eureka Forbes Ltd.—653/Maa/89, 654/Maa/89.  
 Euroceltique, S.A.—319/Cal/89, 718/Cal/89.  
 Evstropov, A.N.—657/Cal/89, 741/Cal/89.  
 Explosivos Alaveses.—167/Del/89.  
 Exxon Chemical Patents Inc.—148/Del/89, 228/Del/89, 229/Del/89, 230/Del/89, 248/Del/89, 258/Del/89, 408/Del/89, 455/Del/89, 525/Del/89, 738/Del/89, 748/Del/89, 767/Del/89, 800/Del/89, 801/Del/89, 840/Del/89, 859/Del/89, 863/Del/89, 865/Del/89, 877/Del/89, 941/Del/89, 981/Del/89, 1002/Del/89, 1034/Del/89, 1036/Del/89, 1119/Del/89, 1120/Del/89.  
 Exxon Research & Engineering Co.—126/Del/89, 171/Del/89, 286/Del/89, 1203/Del/89.

## Name &amp; Appln. No.

## —F—

FBI Brands Ltd.—212/Del/89.  
 F L Smidth & Co. A/S.—132/Maa/89.  
 FMC Corporation.—258/Maa/89, 667/Maa/89, 909/Maa/89.  
 FMIT, Inc.—319/Maa/89, 320/Maa/89, 558/Maa/89.  
 Fabrika, Z. S.—327/Del/89, 332/Del/89.  
 Fabrique Nationale Herstal.—987/Cal/89.  
 Facep S.p.A.—1080/Del/89.  
 Facet Enterprises Inc.—423/Cal/89.  
 Fadte, D.G.—126/Bom/89.  
 Falk Corporation, The.—193/Cal/89, 194/Cal/89.  
 Farbon Aktiengesellschaft.—207/Maa/89, 736/Maa/89.  
 Farrel Corporation.—149/Del/89.  
 Fefac International Ltd.—309/Del/89.  
 Fehder, C. G.—308/Del/89.  
 Fernandez, V.L.D.F.—926/Del/89.  
 Festo Kg.—863/Maa/89.  
 Fibronit S.r.l.—852/Cal/90.  
 Fidia S.p.A.—155/Cal/89, 571/Cal/89, 841/Cal/89.  
 Fina Technology, Inc.—531/Cal/89, 719/Cal/89.  
 Finger, S.M.—889/Cal/89.  
 Firma Ernst Winter & Sohn.—641/Maa/89.  
 First Chemical Corporation.—682/Maa/89.  
 First Tech.—511/Cal/89.  
 Fischman, W.W.—258/Cal/89.  
 Fisher Controls International Inc.—160/Maa/89, 488/Maa/89.  
 Fiah, F.M.—745/Del/89.  
 Fives-Cail Babcock—791/Maa/89.  
 Fiziko-Mekhanichesky Institut Imeni G.V.—1212/Del/89.  
 Fiziko Tekhnichesky Institut Akademii Nauk Belorusskoi SSR—257/Del/89.  
 FLC-CON Systems, Inc.—588/Maa/89.  
 Flogates Ltd.—384/Cal/89.  
 Fongen, S.—526/Maa/89.  
 Fosco International Ltd.—29/Maa/89, 62/Maa/89, 71/Maa/89, 97/Maa/89.  
 Fosroc International Ltd.—608/Del/89, 836/Del/89.  
 Foster Wheeler Energy Corp.—500/Cal/89, 594/Cal/89.

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## F—Contd.

Fotoking Passbildsysteme.—185/Mas/89.  
 Framatome.—659/Mas/89, 852/Mas/89.  
 France, G.D.—1202/Del/89.  
 Franz Plasser Bahnbaumaschinen-Industrie-gesellschaft m.b.H.—  
 88/Cal/89, 754/Cal/89.  
 Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung  
 E.V.—599/Cal/89.  
 Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H.—  
 304/Cal/89, 330/Cal/89, 635/Cal/89.  
 Frick India Ltd.—1016/Del/89.  
 Fried Krupp Gesellschaft Mit Beschränkter Haftung.—641/Cal/89.  
 Fritz Studer Ag.—58/Cal/89.  
 Fruitsource Associates.—645/Del/89.  
 Fuller Company.—15/Del/89.  
 Future Power Inc.—220/Del/89.

## —G—

G & H Technology, Inc.—790/Mas/89.  
 Gec Alsthom Ltd.—786/Del/89.  
 GEC Alsthom S.A.—1078/Del/89.  
 GEC Plessey Telecommunications Ltd.—214/Mas/89, 232/Mas/89,  
 279/Mas/89, 280/Del/89, 556/Del/89, 722/Del/89, 867/Del/89.  
 GTG, Inc.—68/Del/89.  
 Gagnon, P.—67/Del/89.  
 Galatron S.r.l. 'Breech-block'—242/Cal/89.  
 Galic/Mans Ventures.—1037/Cal/89.  
 Gamkhar, D.K.—567/Del/89.  
 Gandhi, G. (B.V.S.C.) Dr.—885/Mas/89.  
 Gandhi, M. Dr.—231/Del/89.  
 Garg, D.K.—489/Del/89.  
 Garg, S.K.—330/Mas/89.  
 Garin, M.—920/Mas/89.  
 Garsan, A.—611/Mas/89, 612/Mas/89.  
 Garware-wall R & D Division.—37/Bom/89, 56/Bom/89.

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## G—Contd.

Gawande, A.A.—285/Bom/89, 286/Bom/89, 287/Bom/89, 288/Bom/  
 89.  
 Geller, G.R.—1114/Del/89.  
 Gencorp Inc.—140/Del/89, 161/Del/89.  
 General Electric Co.—51/Cal/89, 199/Cal/89, 211/Cal/89, 366/Cal/89,  
 407/Cal/89, 629/Cal/89, 644/Cal/89, 645/Cal/89, 752/Cal/89,  
 753/Cal/89, 911/Cal/89, 923/Cal/89, 924/Cal/89, 925/Cal/89,  
 966/Cal/89.  
 General Foods Corporation.—36/Del/89, 472/Del/89, 622/Del/89,  
 720/Del/89, 991/Del/89.  
 General Instrument Corporation.—765/Mas/89.  
 General Motors Corporation.—643/Mas/89.  
 General Signal Corporation.—11/Del/89, 318/Del/89.  
 General Tire, Inc.—44/Del/89.  
 Genesis Chempest Private Ltd.—66/Bom/89.  
 Genetics Institute Inc.—972/Del/89.  
 Genicom Corporation—14/Del/89.  
 Gerard Vanotti.—1118/Del/89.  
 Gerasimov, V.D.—896/Cal/89.  
 Geratz, J.D.—866/Cal/89.  
 Gerin, M.—73/Mas/89, 134/Mas/89, 748/Mas/89, 805/Mas/89,  
 940/Mas/89.  
 George, M. Dr.—122/Mas/89.  
 George Stan Baranescu.—103/Del/89.  
 Georg Fischer Ag.—646/Cal/89, 906/Cal/89.  
 Gersan, A.—577/Mas/89, 578/Mas/89, 579/Mas/89.  
 Gersan Establishment.—354/Mas/89, 355/Mas/89, 356/Mas/89,  
 357/Mas/89, 358/Mas/89, 359/Mas/89, 472/Mas/89.  
 Ghorpade, N.—210/Mas/89.  
 Ghose, P.K.—232/Cal/89, 239/Cal/89, 244/Cal/89.  
 Ghosh, A.—90/Cal/89.  
 Ghosh, A. N.—976/Cal/89.  
 Ghosh, B.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.  
 Ghosh, P.P.—244/Cal/89.  
 Ghosh, S.K.—471/Cal/89.

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## G—Contd.

Gillette Co. The.—807/Del/89, 1065/Del/89.  
 Ginatia Torno Titanium S.p.A.—280/Mas/89.  
 Glaverbel & Fosbel Incorporated.—581/Del/89.  
 Glidden Co. The.—127/Cal/89.  
 Glitsch, Inc.—765/Cal/89.  
 Giovanni Avvtdi.—399/Mas/89.  
 Glaverbel.—1247/Del/89.  
 Glowsinga, W.—939/Mas/89.  
 Glyco-Metall-Worke.—299/Mas/89, 300/Mas/89.  
 Godbole, M.S.—60/Del/89, 68/Bom/89, 69/Bom/89.  
 Gogte, A. V.—45/Bom/89, 46/Bom/89.  
 Goizper, S. Coop. LTDA.—497/Cal/89.  
 Goldstar Co. Ltd.—1201/Del/89.  
 Gokal, H.—91/Bom/89, 92/Bom/89.  
 Gokal, V.—91/Bom/89, 92/Bom/89.  
 Gomaco India Private Ltd.—433/Del/89.  
 Gomelsky Politekhnikhesky Institut.—4/Del/89.  
 Gomes, E.—93/Bom/89.  
 Goodyear Tire & Rubber Co. The.—9/Del/89, 529/Del/89, 572/Del/89, 573/Del/89, 574/Del/89, 575/Del/89, 644/Del/89.  
 Goswami, T.K. Dr.—151/Bom/89.  
 Gopalakrishnan, S.P.—760/Mas/89.  
 Gopalswamy, H.R.—292/Bom/89.  
 Gopi, I.M.—288/Mas/89, 289/Mas/89, 290/Mas/89.  
 Gopi, M.—26/Mas/89.  
 Gorbunov, E.D.—896/Cal/89.  
 Gorno-Altaiysky Gosudarstvenny Pedagogichesky Institut.—437/Del/89.  
 Gosain, S.—569/Cal/89.  
 Gosudarstvenny Nauchno Issledovatel'skiy Institut Khimii i Tekhnologii Elementoorganicheskikh Soedineniy Gniukhteo.—21/Del/89.  
 Goswami, S. Dr. Ing.—1060/Cal/89.  
 Goswami, T.K. Dr.—216/Bom/89.

Gould Inc.—157/Cal/89.  
 Gowranga, K.H.—623/Mas/89.  
 Goyal, K.H.—432/Del/89.  
 Goyal, R.C.—205/Del/89.  
 Goyal R. N.—489/Del/89.  
 Graco Inc.—570/Del/89.  
 Gregory, Gould.—927/Del/89.  
 Grekovich, T.M.—361/Cal/89.  
 Grovag Grossavantiltechnik AG.—414/Mas/89, 639/Mas/89, 842/Mas/89.  
 Groznensky Filial Okhtenskogo Nanchno etc.—302/Del/89.  
 Guest, J.D.—279/Del/89.  
 Guha, A.B.—138/Cal/89.  
 Guha, J.—239/Cal/89.  
 Guha, S.K.—908/Del/89, 997/Del/89, 1090/Del/89.  
 Guigan, J.—662/Del/89, 663/Del/89, 664/Del/89.  
 Guillot, R.B.—1147/Del/89.  
 Gujarat Agro Industries Corporation Ltd.—111/Bom/89.  
 Gujarat Communication & Electronics Ltd.—38/Bom/89.  
 Gujarat State Fertilizers Co. Ltd.—247/Bom/89.  
 Gulde-Regelarmaturen GmbH & Co. Kg.—3/Mas/89.  
 Gullick Dobson Ltd.—113/Cal/89.  
 Gupta, A.—545/Del/89, 823/Del/89.  
 Gupta, A.K.—204/Del/89, 314/Del/89.  
 Gupta, H.S.—806/Mas/89, 807/Mas/89, 883/Mas/89.  
 Gupta, J.P.—1020/Del/89.  
 Gupta, J.S.—58/Del/89.  
 Gupta, M.M.—59/Bom/89.  
 Gupta, R.—1012/Del/89, 1014/Del/89.  
 Gupta, V.—323/Del/89, 716/Del/89, 885/Del/89.  
 Gurlevsky Khimichesk Zaved Imeni.—302/Del/89.  
 Gurit-Essex Ag.—556/Cal/89.

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—H—

HMT Ltd.—536/Maa/89, 813/Maa/89, 814/Maa/89, 815/Maa/89, 816/Maa/89, 817/Maa/89.

HULS Aktiengesellschaft.—131/Maa/89.

Hagglunds Denison Corporation.—795/Cal/89, 796/Cal/89, 228/Maa/89.

Hairetidinov, E. Dr.—23/Bom/89.

Halder Topsoe A/s.—401/Maa/89, 403/Maa/89.

Haldor Topsoe A/s.—495/Maa/89.

Hall, J. E.—866/Cal/89.

Hamshire Advisory & Technical Services Ltd.—706/Maa/89.

Handy Chemicals Ltd.—1017/Del/89.

Hanleu, R. P.—199/Del/89.

Hansdieter Brauhn.—739/Del/89.

Hansen, B.—675/Cal/89, 743/Cal/89, 744/Cal/89.

Hans Oetiker Ag Maschinenfabrik Und Apparatefabrik—123/Cal/89.

Hantel, M. (Prof. Dr. Ing.).—405/Maa/89.

Happy Velly Combines (P) Ltd.—910/Maa/89.

Hargem Ltd.—445/Cal/89.

Harley Systems Pty. Ltd.—600/Cal/89.

Harnischfeger Corporation.—163/Cal/89.

Harris Corporation.—621/Cal/89, 622/Cal/89.

Hartmann & Braun Aktiengesellschaft.—1136/Del/89.

Haryana Sheet Glass Ltd.—893/Cal/89.

Haser Co. Ltd. The.—825/Maa/89, 826/Maa/89.

Heolley Pruvis Ltd.—726/Maa/89.

Heiliger, M.-C.—814/Cal/89.

Heinz Schaaf Ohg Nahrungsmittel-Extrusionstechnik.—315/Del/89.

Hendry, N.G.C.—711/Del/89.

Henkel Corporation.—410/Maa/89.

Henkel Kommanditgesellschaft auf Aktien.—25/Maa/89, 34/Maa/89, 35/Maa/89, 44/Maa/89, 114/Maa/89, 206/Maa/89, 307/Maa/89.

Henkel Kommanditgesellschaft auf Aktien.—336/Maa/89, 463/Maa/89, 509/Maa/89, 551/Maa/89, 572/Maa/89, 773/Maa/89, 799/Maa/89, 800/Maa/89, 848/Maa/89, 849/Maa/89, 850/Maa/89, 887/Maa/89.

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Herdin GrubH.—705/Maa/89.

Hermann Ruf.—372/Maa/89.

Heurtey, S.—646/Del/89.

Hibass Photomec Ltd.—410/Del/89.

Hickman, J.A.A.—857/Del/89.

Himont Incorporated.—416/Cal/89, 789/Cal/89, 790/Cal/89, 791/Cal/89, 1022/Cal/89, 758/Maa/89.

Hindustan Antibiotics Ltd.—146/Bom/89.

Hindustan Lever Ltd.—16/Bom/89, 29/Bom/89, 47/Bom/89, 48/Bom/89, 64/Bom/89, 70/Bom/89, 74/Bom/89, 75/Bom/89, 81/Bom/89, 85/Bom/89, 112/Bom/89, 113/Bom/89, 114/Bom/89, 117/Bom/89, 124/Bom/89, 125/Bom/89, 130/Bom/89, 131/Bom/89, 132/Bom/89, 133/Bom/89, 134/Bom/89, 148/Bom/89, 149/Bom/89, 155/Bom/89, 156/Bom/89, 164/Bom/89, 170/Bom/89, 184/Bom/89, 185/Bom/89, 205/Bom/89, 208/Bom/89, 212/Bom/89, 222/Bom/89, 223/Bom/89, 225/Bom/89, 243/Bom/89, 262/Bom/89, 263/Bom/89, 264/Bom/89, 265/Bom/89, 266/Bom/89, 269/Bom/89, 271/Bom/89, 272/Bom/89.

Hitachi Construction Machinery Co. Ltd.—79/Cal/89, 314/Cal/89, 350/Cal/89, 419/Cal/89, 503/Cal/89, 510/Cal/89, 601/Cal/89, 734/Cal/89, 780/Cal/89, 950/Cal/89, 969/Cal/89, 1048/Cal/89, 1067/Cal/89.

Hitachi Ltd.—72/Cal/89, 409/Maa/89, 502/Cal/89, 615/Cal/89, 785/Cal/89, 919/Cal/89, 978/Cal/89, 1005/Cal/89, 1063/Cal/89.

Hitchcock, H.J.—301/Bom/89.

Hock, L.S.—1200/Del/89.

Hodogaya Chemical Co. Ltd.—1050/Cal/89.

Hoechst Aktiengesellschaft.—47/Cal/89, 164/Maa/89, 204/Cal/89, 282/Cal/89, 306/Cal/89, 306/Maa/89, 318/Cal/89, 351/Cal/89, 382/Maa/89, 450/Cal/89, 472/Cal/89, 664/Maa/89, 665/Maa/89, 683/Cal/89, 688/Cal/89, 696/Cal/89, 702/Cal/89, 712/Cal/89, 774/Cal/89, 775/Cal/89, 782/Cal/89, 880/Cal/89, 901/Cal/89, 913/Maa/89, 1036/Maa/89.

Hoechst Celanese Corporation.—405/Cal/89, 651/Cal/89.

Hoechst India Ltd.—67/Bom/89, 139/Bom/89, 163/Bom/89, 280/Bom/89, 294/Bom/89, 295/Bom/89, 297/Bom/89, 348/Bom/89, 353/Bom/89.

Hoerbiger Ventilwerke Aktiengesellschaft.—424/Cal/89.

Hoesch Maschinenfabrik Deutschland Ag.—185/Cal/89, 521/Cal/89.

Holec Systemen En Componenten B.V.—400/Cal/89.

Hollandse Signallapparaten B.V.—547/Cal/89, 581/Cal/89, 582/Cal/89.

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Hollandse Signaal-apparaten B.V.—631/Cal/89, 738/Cal/89, 788/Cal/89, 940/Cal/89, 958/Cal/89.

Honey Bull Inc.—24/Bom/89.

Hong Kong Diaclock Co. Ltd.—523/Cal/89.

Hong, Y.G.—536/Cal/89.

Hoogvens BV.—105/Maa/89, 146/Maa/89, 504/Maa/89, 862/Maa/89, 917/Maa/89.

Hoover Universal Inc.—406/Cal/89, 508/Cal/89.

Hotelec S.A.—285/Maa/89.

Hougen, E.D.—227/Del/89.

Howa Machinery, Ltd.—354/Del/89, 620/Del/89.

Hoya Corporation.—491/Maa/89.

Hrdicka, A.W. Ing.—953/Maa/89.

Haich, W.J.—927/Maa/89.

Hsiau, M.F.—927/Maa/89.

Hughes Aircraft Co.—249/Del/89, 792/Del/89.

Hughes, R.E.—1115/Del/89.

Hui, L.Y.—777/Cal/89.

Huls Aktiengesellschaft.—941/Maa/89.

Hunter Douglas International NV.—281/Del/89, 741/Del/89, 766/Del/89, 963/Del/89, 1161/Del/89.

Hussain, A.—618/Cal/89.

Hutec Holzmann Umwelttechnik GmbH.—640/Cal/89.

Hwang, T.S.—536/Cal/89.

Hydranautics Corporation.—652/Cal/89.

Hydro-Quebec.—840/Maa/89.

Hylsa, S.A. De C.V.—332/Maa/89.

## —I—

ICI Australia Operations Proprietary Ltd.—481/Del/89, 915/Del/89.

ICI India Ltd.—574/Cal/89, 897/Cal/89, 938/Cal/89, 1014/Cal/89.

IMC Nertilizer Inc.—40/Maa/89.

IMZ Fertigungs- und Vertriebsgesellschaft für dentale Technologie m.b.H.—905/Maa/89, 906/Maa/89.

## Name &amp; Appln. No.

## I—Contd.

Ivg Australia Pty. Ltd.—845/Cal/89.

Ibico Inter binding GMBH.—1041/Del/89.

Idemitsu Petrochemical Co. Ltd.—982/Cal/89, 1060/Del/89.

Illinois Tools Works Inc.—735/Del/89.

Imdut International B.V.—1029/Cal/89.

Imperial Chemical Industries PLC.—16/Del/89, 17/Del/89, 20/Del/89, 66/Del/89, 84/Del/89, 218/Del/89.

Imperial Chemical Industries PLC.—219/Del/89, 225/Del/89, 266/Del/89, 506/Del/89, 528/Del/89, 579/Del/89, 642/Del/89, 684/Del/89, 704/Del/89, 707/Del/89, 841/Del/89, 864/Del/89, 930/Del/89, 931/Del/89, 952/Maa/89, 1059/Del/89, 1084/Del/89, 1205/Del/89, 1211/Del/89.

Improver Corporation.—100/Maa/89, 333/Maa/89.

Impuls-Apparatebau Jaeger & Sohn GmbH Industriegebiet Pinache.—433/Cal/89.

Inalsa Ltd.—307/Del/89.

India Foils Ltd.—935/Cal/89.

Indian Farmers Fertilizers Cooperative Ltd.—204/Bom/89.

Indian Fine blank Ltd.—296/Cal/89.

Indian Institute of Science.—430/Maa/89, 431/Maa/89, 500/Maa/89.

Indian Institute of Technology, Delhi.—223/Del/89.

Indian Institute of Technology, Madras.—16/Maa/89.

Indian Jute Industries' Research Association.—23/Cal/89, 1062/Cal/89, 1068/Cal/89.

Indian Oil Corporation Ltd.—219/Bom/89, 220/Bom/89, 221/Bom/89.

Indian Petrochemicals Corporation Ltd.—63/Bom/89, 90/Bom/89.

Indian Space Research Organisation.—514/Maa/89, 548/Maa/89, 549/Maa/89.

Industrial Management Co.—51/Del/89, 177/Del/89.

Industrial Sales Co. (ISCO) A/S.—469/Cal/89.

Infrasonik AB.—994/Del/89.

Ingenioer-Og Arkitektfirmaet.—64/Maa/89.

Inland Steel Co.—497/Maa/89.

Institut Armand-Frappier.—373/Maa/89.

Institut Belka Akademii Nauk Saar.—173/Cal/89.

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## I—Contd.

Institut Bioorgani cheskoi Khimii Akademii Nauk Uzbexkoi SSR.—33/Cal/89.

Institut De Recherches De La Siderurgie Francaise (IRSID).—363/Mas/89, 484/Mas/89, 631/Mas/89.

Institut De Recherches De La Siderurgie Francaise (Irsid en abrege)—285/Mas/89.

Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR.—210/Del/89, 765/Del/89.

Institute for biological physics—305/Cal/89.

Institute of General & Physical Chemeistry.—305/Cal/89.

Institut Fiziki Vysokikh Davleny Imeni L.F.—3/Cal/89.

Institut Francais Du Petrole.—69/Mas/89, 170/Mas/89, 175/Mas/89, 199/Mas/89, 225/Mas/89, 312/Mas/89, 361/Mas/89, 362/Mas/89, 460/Mas/89, 461/Mas/89, 533/Mas/89, 640/Mas/89, 670/Mas/89, 675/Mas/89, 1260/Del/89.

Institut Fur Angewandte Bio-Technologie Der Tropen An Der George-August-Universitat—195/Cal/89.

Institut Gidrodinamiki Imeni M.A. Lavrientieva Sibirskogo Otdelenia Akademii Nauk SSSR—291/Del/89, 293/Del/89, 303/Del/89, 310/Del/89.

Institut Gornogo Dela Imeni A.A. Skochinskogo—995/Del/89.

Institut Gornogo Dela Sibirskogo Otdelenia Akademii Nauk SSSR.—362/Cal/89.

Institut Kalaliza Sibirskogo Otdelenia Akademii Nauk SSSR.—302/Del/89.

Institut Khimicheskoi Fiziki Akademii Nauk SSSR.—834/Cal/89, 952/Cal/89.

Institut Mekhaniki Mtallopolimernykh Sistem Akademii Nauk Belorusskoi SSR—16/Cal/89.

Institut Merieux—104/Cal/89, 105/Cal/89.

Institut Morfologii Cheloveka Akademii Meditsinskikh Nauk Ssr.—245/Cal/89.

Institut Strukturnoi Akademii Nauk Ssr.—187/Cal/89, 310/Cal/89, 367/Cal/89, 582/Del/89, 768/Del/89, 987/Cal/89.

Institut Tekhnicheskoi Teplofiziki Akademii Nauk Ukrainskoi Ssr.—707/Cal/89.

Institut Uglya Sibirskogo Otdelenia Akademii Nauk Ssr.—704/Cal/89.

Instytut Chemii Przemyslowej—983/Cal/89.

Instytut Ciezkiej Syntezy Organicznej "Blachownia"—36/Cal/89.

Intelepex Corporation. The—623/Cal/89, 624/Cal/89.

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## I—Contd.

Intel Gasgards Pvt. Ltd.—145/Del/89, 549/Del/89, 710/Del/89, 788/Del/89, 1139/Del/89.

Interatom GMBH—291/Cal/89.

Interlego A.G.—176/Del/89, 178/Del/89, 335/Del/89.

International Business Machines Corporation—277/Del/89, 360/Del/89, 441/Del/89, 442/Del/89, 443/Del/89, 444/Del/89, 521/Del/89, 522/Del/89, 558/Del/89, 626/Del/89, 627/Del/89, 628/Del/89, 629/Del/89, 630/Del/89, 714/Del/89, 729/Del/89, 732/Del/89, 759/Del/89, 846/Del/89, 910/Del/89.

International Development Research Centre.—803/Mas/89.

International Integrated systems, Inc.—284/Cal/89.

International Minerals & Chemical Corporation.—409/Cal/89.

International Mobile Machines Corporation.—184/Del/89, 597/Del/89, 598/Del/89, 599/Del/89, 600/Del/89, 601/Del/89, 602/Del/89, 603/Del/89, 604/Del/89, 1166/Del/89.

International Paint Public Ltd Co.—95/Del/89, 138/Del/89, 139/Del/89, 371/Del/89, 411/Del/89.

International Thermal Packaging, Inc.—200/Mas/89.

Interprofil GFK-Fenster—1185/Del/89.

Inventio AG.—102/Mas/89, 510/Mas/89.

Ion Exchange (India) Ltd.—43/Bom/89, 44/Bom/89, 72/Bom/89, 99/Bom/89, 135/Bom/89, 305/Bom/89.

Irulappan, C.—936/Mas/89.

Isoworth Ltd.—344/Mas/89, 346/Mas/89.

Italfarmaco S.p.A.—435/Mas/89.

Italimpianti societe Italiana Impianti Pa.—209/Mas/89.

Ivano-Frankovsky Institute Nefti I Gaza Ussr.—588/Cal/89.

Izuclensky, E.V.—657/Cal/89.

—J—

J & D Wilkie Ltd.—128/Mas/89.

JCT Controls Ltd.—76/Cal/89.

JGC Corporation—93/Cal/89.

J.M.Voith GmbH.—626/Cal/89.

J.S.F. Holdings (Cork) Ltd.—39/Cal/89.

J.S. Telecommunications.—506/Mas/89.

Jac Tractor Ltd.—672/Cal/89.

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## J—Contd.

Jain, K.—87/Bom/89.  
 Jain, K.D.—1091/Del/89.  
 Jain, M.—331/Bom/89.  
 Jain, M.K.—27/Cal/89, 28/Cal/89, 29/Cal/89, 198/Cal/89.  
 Jain, S.S.—120/Del/89, 121/Del/89, 122/Del/89, 127/Del/89, 203/Del/89, 317/Del/89, 340/Del/89.  
 Jain, V.K.—1091/Del/89.  
 Jairaj, G.—783/Mas/89.  
 Jakobsson, L.—1029/Del/89, 1030/Del/89.  
 James Hardie Irrigation, Inc.—47/Mas/89.  
 Jana, P.K. Shri—452/Cal/89.  
 Jandal, D.P.—194/Del/89.  
 Jayaprakash, T.C.—652/Mas/89.  
 Jayaraman, T.R.—195/Del/89.  
 Jaysynth Dyechem Ltd.—304/Bom/89, 306/Bom/89, 307/Bom/89, 323/Bom/89.  
 Jeumont-Schneider—177/Mas/89.  
 Jhanglani, D.K.—264/Cal/89.  
 Jindal D.P.—194/Del/89.  
 Joglekar, V.R.—178/Bom/89.  
 John Crane UK Ltd.—151/Del/89.  
 Johannes Cerhardus Christianus geerts—327/Cal/89.  
 Johnson & Johnson GmbH.—197/Del/89, 198/Del/89.  
 Johnson K.G.—668/Mas/89.  
 Johnson Matthey Public Ltd. Co.—912/Del/89.  
 Joseph, D.S.L.—162/Mas/89.  
 Joseph, M.J.—429/Mas/89.  
 Joseph, N. J.—452/Mas/89.  
 Jose Thaikattil. CAP—775/Mas/89.  
 Joshi, D.M.—189/Bom/89.  
 Joshi, K.S.—747/Mas/89.  
 Joshi, S.P.—593/Mas/89, 747/Mas/89.  
 Joshi, S.V. Shri—176/Bom/89.

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## J—Contd.

Joshua, V.—18/Mas/89.  
 Joy, K.A.—468/Mas/89, 727/Mas/89.  
 Joy, P.T.—41/Bom/89.  
 Jushunev, M.N.—289/Del/89.  
 —K—  
 K.C. Das Pvt. Ltd.—678/Cal/89.  
 K.D.T. Systems Pty. Ltd.—621/Del/89.  
 KSB Aktiengesellschaft.—202/Cal/89.  
 KSB Pumps Ltd.—169/Bom/89.  
 Kaali, S.—221/Cal/89.  
 Kabelschlapp GmbH.—157/Bom/89.  
 Kabushiki Kaisha Nisshin Seisakuho.—46/Cal/89.  
 kabushiki-Kaisha Yamamoto-Seisakuho.—962/Cal/89.  
 Kachanov, E.G.—657/Cal/89, 741/Cal/89.  
 Kadarundalige Sitaramadas Gururaja Dasa.—700/Mas/89.  
 Kafley, O.C.—216/Cal/89.  
 Kairhottukonam, K.S.S.U.—248/Mas/89.  
 Kaiser, T.—792/Mas/89.  
 Kalachari, C.—150/Mas/89, 847/Mas/89.  
 Kalamdani, M.R.—282/Bom/89.  
 Kampli, S.I. Dr.—217/Mas/89.  
 Kanegafuchi Kagaku Kogyo kabushiki Kaisha.—681/Del/89.  
 Kang, J.S.—27/Del/89.  
 Kansai Paint Co. Ltd.—671/Mas/89.  
 Kar, A.—74/Cal/89.  
 Karp, S.—524/Cal/89.  
 Karrim, A.S.—339/Bom/89.  
 Kar, S.B.—74/Cal/89, 75/Cal/89, 625/Cal/89.  
 Kasei Optonix, Ltd.—1017/Cal/89.  
 Kate, S.M.—338/Bom/89.  
 Kauffman, S.A.—228/Cal/89.

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K—Contd.	K—Contd.
Kaur, P. Dr.—242/Bom/89.	Kirlokar Brothers Ltd.—188/Bom/89.
Kawasaki Jukogyo Kabushiki Kaisha.—648/Maa/89, 784/Del/89	Kirloskar Pneumatic Co. Ltd.—102/Bom/89, 103/Bom/89, 179/Bom/89.
Kawasaki Steel Corporation.—158/Cal/89.	Kirsch, A.—907/Maa/89, 908/Maa/89.
Kazakov, V.A.—647/Cal/89.	Kitamura, V.—630/Maa/89.
Kelsey-Hayes Co.—71/Cal/89, 494/Cal/89, 602/Cal/89, 759/Cal/89, 878/Cal/89, 907/Cal/89.	Kitechology B.V.—567/Maa/89.
Kennametal Inc.—772/Del/89, 834/Del/89.	Kivakoe Proizvodstvennoe Obiedinenie "VEDA"—210/Del/89.
Kent, J.M.—756/Cal/89.	Klas Engineering Pvt. Ltd.—81/Maa/89.
Kent-Moore Corporation.—30/Cal/89.	Klenzaida Engineers Pvt. Ltd.—13/Bom/89.
Keravision, Inc.—294/Del/89.	Klockner CRA Patent GmbH—89/Cal/89.
Kernforschungsanlage Julichgesellschaft Mit Beschränkter Haftung.—972/Cal/89.	Klockner Stahl GmbH.—715/Maa/89.
Kerr-McGee Chemical Corporation.—654/Cal/89, 670/Cal/89, 868/Cal/89.	Koenig AG.—1092/Del/89.
Khamaria, R.N.—882/Del/89.	Kolay, C. Shri.—649/Cal/89.
Khannan, R.—190/Maa/89.	Kolb, J.M.—853/Cal/89.
Khante, M.N.—310/Bom/89.	Kone Elevator GmbH.—453/Cal/89, 462/Cal/89, 470/Cal/89, 516/Cal/89, 517/Cal/89, 518/Cal/89, 519/Cal/89.
Khan, U.C.—786/Cal/89.	Koninklijke Emballage Industri Van Leer B.V.—606/Cal/89, 771/Cal/89.
Kharkovsky Institut Radio Elektroniki—992/Del/89.	Konovalenko, N.A.—889/Cal/89.
Kharkovsky Meditsinsky Institut.—992/Del/89.	Konrad Doppel Mayr of Sohn Maschinen Fabrik Gesellschaft GmbH. & Co.—349/Bom/89.
Khatril, A.A. Dr.—60/Bom/89, 68/Bom/89, 69/Bom/89.	Kooperativ Dish-Ussr.—828/Cal/89, 1004/Cal/89.
Khenven, O.J.—889/Cal/89.	Koparde, V.P.—104/Bom/89.
Khmelnitsky Technologichesky Institut Bytovogo Obsluzhivania—1083/Del/89.	Koppel Aktiengesellschaft.—226/Cal/89.
Khodosevich, V.M.—276/Del/89, 290/Del/89.	Koppelman, E.—159/Cal/89.
Khosla Engineers.—692/Del/89.	Korea Research Institute of Chemical Technology.—719/Del/89.
Kievsky Nauchno-Issledovatel'sky Institut Neiro-Khirurgii.—604/Cal/89.	Kortec AG.—824/Cal/89.
Khevsky Politekhichesky Institut Imeni 50-Letia Velikoi Oktyabrskoi Sotsialisticheskoi Revolutsii USSR—10/Cal/89, 219/Cal/89, 255/Del/89.	Kotov, V.M.—657/Cal/89.
Kim, I.S.—599/Maa/89.	Kramatorsky Industrialny Institut.—5/Cal/89, 1059/Cal/89.
Kinariwala, S.N.—222/Del/89, 234/Del/89, 1244/Del/89, 1263/Del/89.	Krishna, A.H.—121/Maa/89.
Kinetic Engineering Ltd.—299/Bom/89.	Krishnakumar, U.—95/Maa/89.
Kinglor Ltd.—191/Cal/89, 290/Cal/89.	Krishna, N.V.S.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.
	Krishnarao, T.M.—604/Maa/89.
	Krishnasamy, K.S.—38/Maa/89.

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K—Contd.	L—Contd.
Krone Aktiengesellschaft.—55/Cal/89, 278/Cal/89, 884/Cal/89, 1006/Cal/89.	Laboratori Guidotti S.p.A.—283/Cal/89.
Krupp Bruning Haus GmbH.—63/Cal/89.	Laboratories Del Dr. Esteve S.A.—873/Del/89.
Krupp Industrietechnik GmbH.—721/Cal/89.	Laforest, P.—67/Del/89.
Krupp Koppers GmbH.—96/Cal/89, 97/Cal/89, 426/Cal/89, 427/Cal/89, 900/Cal/89.	Laico, J.P.—362/Del/89.
Krupp Polysius AG.—1003/Del/89, 1095/Del/89.	L' Air Liquide, Societe Anonyme Pour L' Etude Et L' Exploitation Des Procedes Georges Claude.—368/Del/89, 782/Del/89, 783/Del/89, 799/Del/89.
Krupp Widia GmbH.—308/Cal/89, 451/Cal/89, 757/Cal/89, 829/Cal/89, 854/Cal/89, 917/Cal/89, 956/Cal/89, 1008/Cal/89, 1047/Cal/89.	Lakhañ, C. Sri—1039/Del/89.
Kulinich, V.P. Ussr.—706/Cal/89.	Lakshminarayana, A.—916/Mas/89.
Kulkarni, S.K.—34/Bom/89.	Lakshminarayan, K. Dr.—224/Bom/89.
Kumar, A.—322/Del/89, 830/Del/89.	Lancet S.A.—229/Mas/89, 699/Mas/89.
Kumar, D.V.—283/Mas/89.	Lande, D.S.—251/Bom/89.
Kumar, P.—13/Del/89, 24/Del/89, 33/Del/89.	Landis & Cyr batriebs AB—1159/Del/89.
Kumar, R.V.—157/Mas/89.	Lanxide Technology Co. Lp.—6/Cal/89, 7/Cal/89, 117/Cal/89, 156/Cal/89, 783/Cal/89, 797/Cal/89, 798/Cal/89, 799/Cal/89, 800/Cal/89, 801/Cal/89, 802/Cal/89, 803/Cal/89, 804/Cal/89, 805/Cal/89, 806/Cal/89, 807/Cal/89, 808/Cal/89, 809/Cal/89, 810/Cal/89, 811/Cal/89, 812/Cal/89, 813/Cal/89, 887/Cal/89, 914/Cal/89, 990/Cal/89, 991/Cal/89, 992/Cal/89, 993/Cal/89, 994/Cal/89, 995/Cal/89, 996/Cal/89, 997/Cal/89.
Kumar, S.—845/Mas/89, 847/Cal/89.	Larry Wayne Fullerton.—237/Del/89.
Kumar, S.A.—759/Mas/89.	Larsen & Toubro Ltd.—17/Bom/89.
Kumar, S.R.—845/Mas/89.	La Telemecanique Electrique—251/Del/89, 265/Del/89, 297/Del/89.
Kundu, G.G.—821/Cal/89.	Latha, S.H.—121/Mas/89.
Kunnath, M.K.A. Dr.—230/Mas/89.	Latviiskaya Selskozyaistvennaya Akademia—387/Del/89, 437/Cal/89, 546/Del/89.
Kupka, A.—948/Cal/89.	Latviiskaya Selskokhozyaistvennaya Akademia.—547/Del/89, 547/Cal/89.
Kurihara, Y.—504/Del/89.	Lee, C.S.—627/Cal/89.
Kurimoto Ltd.—580/Mas/89, 624/Mas/89.	Lee, N.—464/Mas/89.
Kurbert, W.H.—1001/Cal/89.	Leet, R.P.K.—401/Cal/89.
Kurner, R.—60/Cal/89.	Lee, S.D.—278/Del/89.
Kurzinaki, C.R.—1006/Del/89.	Lee, Y.S.—323/Cal/89.
Kuzmin, M.F.—289/Del/89.	Leif Jakobson.—1029/Del/89, 1030/Del/89.
Kwality Frozen Foods Pvt. Ltd.—216/Bom/89.	Leikin, V.Z.—896/Cal/89.
Kyle, D.E.—866/Cal/89.	Leis, R.—82/Mas/89.
—L—	Lemna Corporation. The—236/Cal/89.
L-Tec Co.—767/Cal/89.	
Laboratories Boiron S.A.—101/Del/89.	
Laboratories Dimilena.—451/Del/89.	

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## L—Contd.

Leningradsky Institut tochnoi mekhaniki I optiki ussr.—285/Cal/89.

Lenzing Aktiengesellschaft.—164/Cal/89, 168/Del/89, 647/Del/89, 1079/Del/89.

Leonid Alexandrovich Mirkind-Ussr.—832/Cal/89.

Lepnev, G.P.—361/Cal/89.

Lewis, A.C.—377/Mas/89, 537/Cal/89.

Lewis, M.R.—63/Mas/89.

Leybold Aktiengesellschaft.—364/Cal/89.

Libbey-Owens-Ford Co.—736/Cal/89.

Lleisone Electroniques-Mechaniques Lem S.A.—689/Mas/89.

Liftsonic Ltd.—288/Cal/89.

Lilliwyte Societe Anonyme—413/Mas/89.

Limitorque Corporation.—66/Cal/89, 67/Cal/89.

Linde Aktiengesellschaft.—218/Mas/89, 265/Mas/89.

Links Promoters Ltd.—151/Mas/89.

Linton & Mirst Ltd.—855/Mas/89.

Lin, Y.H.—664/Cal/89.

Lipha, Lyonnaise Industrielle—480/Del/89.

Lister Institute of Proventive Medicine.—663/Mas/89.

Lister Raj C.—522/Mas/89.

Lithium Corporation of America.—750/Del/89.

Lock-R-Lock, Inc.—544/Cal/89, 695/Cal/89.

Loncar, A.M.—307/Mas/89.

Leningradsky Institut Tochnoi Mekhaniki I Optiki.—464/Cal/89.

Lonza Inc.—40/Del/89.

Lonza Ltd.—951/Mas/89.

Lourence Cornelius Johnnes Greyvenstein.—421/Del/89.

Lovejoy India (Pvt.) Ltd.—298/Bom/89, 300/Bom/89.

Lowan (Management) Pty. Ltd.—482/Del/89.

Lubrizol Corporation, The—42/Del/89, 48/Del/89, 114/Del/89.

Lubrizol Corporation The.—343/Del/89, 344/Del/89, 359/Del/89, 399/Del/89, 463/Del/89, 464/Del/89, 465/Del/89, 466/Del/89, 467/Del/89, 486/Del/89, 509/Del/89, 519/Del/89, 524/Del/89, 535/Del/89, 683/Del/89, 695/Del/89, 785/Del/89, 787/Del/89, 802/Del/89, 808/Del/89, 811/Del/89, 835/Del/89, 962/Del/89, 983/Del/89, 1005/Del/89, 1081/Del/89, 1177/Del/89, 1213/Del/89.

Lucas Industries Plc.—79/Mas/89, 104/Mas/89, 147/Mas/89, 284/Mas/89, 469/Mas/89, 794/Cal/89.

Lu, Fengshang.—48/Mas/89.

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## L—Contd.

Lummus Crest Inc.—256/Cal/89, 300/Cal/89, 390/Cal/89, 693/Cal/89, 960/Cal/89.

Lunat Radiation, Inc.—349/Cal/89.

Luraflex GmbH Gerhard Luckenotte—948/Mas/89.

Luxembourg Industries (Pamol) Ltd.—348/Cal/89.

Luz Industries Israel Ltd.—115/Bom/89.

Luzin, P.M.—896/Cal/89.

Lyonnaise Industrielle Pharmaceutique.—855/Del/89.

## —M—

M & I Heat Transfer Products Ltd.—1085/Del/89.

M & T Chemical Inc.—55/Del/89, 110/Del/89, 355/Del/89, 838/Del/89, 861/Del/89, 1025/Del/89.

M.A. Shah & Co.—119/Cal/89.

M.D. Engineering, Inc.—317/Cal/89.

MDT Corporation.—352/Cal/89, 353/Cal/89.

M.M. Jack Engineering Pty. Ltd.—487/Del/89.

Mackey, C.A.—423/Del/89.

Macneill & Magor Ltd.—781/Cal/89, 782/Cal/89.

Macrovision Corporation.—364/Mas/89.

Madigan, S.M.—859/Cal/89.

Maersky Olie OG Electrical Ltd.—152/Del/89.

Magneti marelli Electrical Ltd.—499/Mas/89, 933/Mas/89.

Magniev I Electroodnoi Promyshlennosti.—268/Cal/89, 322/Cal/89, 944/Del/89.

Mahadevan, A.—937/Mas/89.

Mahadevia, R.—182/Bom/89, 183/Bom/89.

Mahajan, A.S.—229/Cal/89.

Mahapatra, P.K.—1031/Cal/89.

Majumdar, A.—107/Cal/89.

Majumder, A.B.—967/Cal/89, 968/Cal/89.

Majumdar, S.—107/Cal/89.

Malhati Tea & Industries Ltd.—230/Cal/89.

Malik, A.—53/Bom/89.

Mallik, A.K.—204/Del/89.

Mallikarjunan, N.—895/Mas/89.

Mallinckrodt, Inc.—70/Del/89.

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## M—Contd.

Managing Director of M/S Wires & Fabriks (S.A.) Ltd.—447/Del/89.

Mandarin, R.—203/Maa/89.

MAN Gutehoffnungshuttw.—537/Maa/89.

Manitowoc Co. Inc. The—830/Maa/89.

Mannesmann Aktiengesellschaft—235/Maa/89, 386/Maa/89, 399/Maa/89, 511/Maa/89.

Manocha, Y.—503/Del/89.

Manoharal,—50/Del/89.

Mansour, M.M.—702/Del/89.

Manauri, M.I.—278/Bom/89.

Manville Corporation.—902/Cal/89.

Marathe Research Foundation.—36/Bom/89, 273/Bom/89.

Marcegaglia S.p.A.—212/Cal/89.

Mario Di Maio S.P.A.—367/Del/89.

Martin Engineering Co.—24/Cal/89.

Martinesco, D.—817/Del/89.

Martynenkova, R.A.—889/Cal/89.

Mara, Incorporated—875/Maa/89, 876/Maa/89.

Maschinenfabrik Reinhausen GmbH.—501/Maa/89.

Maschenfabrik Rieter AG.—22/Maa/89, 115/Maa/89, 116/Maa/89, 117/Maa/89, 118/Maa/89, 119/Maa/89, 120/Maa/89, 142/Maa/89, 167/Maa/89, 168/Maa/89, 186/Maa/89, 201/Maa/89, 219/Maa/89, 234/Maa/89, 270/Maa/89, 275/Maa/89, 305/Maa/89, 314/Maa/89, 315/Maa/89, 331/Maa/89, 342/Maa/89, 393/Maa/89, 424/Maa/89, 425/Maa/89, 433/Maa/89, 481/Maa/89, 482/Maa/89, 483/Maa/89, 493/Maa/89, 502/Maa/89, 529/Maa/89, 541/Maa/89, 597/Maa/89, 598/Maa/89, 601/Maa/89, 632/Maa/89, 645/Maa/89, 649/Maa/89, 660/Maa/89, 678/Maa/89, 692/Maa/89, 693/Maa/89, 708/Maa/89, 709/Maa/89, 710/Maa/89, 712/Maa/89, 713/Maa/89, 719/Maa/89, 720/Maa/89, 721/Maa/89, 732/Maa/89, 739/Maa/89, 751/Maa/89, 752/Maa/89, 786/Maa/89, 802/Maa/89, 827/Maa/89, 834/Maa/89, 837/Maa/89, 843/Maa/89, 846/Maa/89, 868/Maa/89, 889/Maa/89, 903/Maa/89, 904/Maa/89, 914/Maa/89, 919/Maa/89, 931/Maa/89, 937/Maa/89.

Maschinenfabrik Sulzer-Burckhardt AG.—25/Del/89, 26/Del/89, 92/Del/89, 93/Del/89.

Massachusetts Institute of Technology. The—554/Maa/89.

Massey-Ferguson Services N.V.—984/Cal/89.

Mate, S.M.—338/Bom/89.

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Matharoo Singh Engineering Co. (P) Ltd.—498/Cal/89.

Mathew, A.F.—480/Maa/89.

Mathur, P.—481/Cal/89, 489/Cal/89.

Matsushita Electric Industrial Co. Ltd.—873/Cal/89.

Mazgaonkar, S.G.—302/Bom/89.

Mcconway & Torley Corporation.—830/Cal/89.

Mc Dermott International, Inc.—671/Cal/89.

Mcneil-Ppc, Inc.—203/Cal/89, 279/Cal/89, 398/Cal/89, 773/Cal/89, 885/Cal/89.

Meada, S.B.—803/Del/89.

Mec A/S.—110/Cal/89.

Mechanikai Laboratorium Híradastechnikai kiserleti Vallalat.—477/Cal/89.

Mechelonic Welders Pvt. Ltd.—186/Bom/89.

Medicinska Akademia Presidency—581/Maa/89.

Mediolanum Farmaceutici Srl.—177/Cal/89, 363/Cal/89.

Mefina S.A.—841/Maa/89, 856/Maa/89, 857/Maa/89, 858/Maa/89, 864/Maa/89, 1007/Del/89, 1008/Del/89.

Mengel, C.—861/Maa/89.

Menke, J.C.—199/Del/89.

Merck Patent Gesellschaft Mit Beschränkter Haftung.—286/Cal/89, 376/Cal/89, 447/Cal/89, 879/Cal/89.

Measier-Hispano-Baugatti.—853/Maa/89.

Metacon Ag.—550/Cal/89, 560/Cal/89.

Metal Casting Technology, Inc.—625/Del/89.

Metal Closures Ltd.—189/Del/89.

Metallgesellschaft Aktiengesellschaft—112/Cal/89, 174/Cal/89, 274/Cal/89, 473/Cal/89, 474/Cal/89, 592/Cal/89, 674/Cal/89, 894/Cal/89, 953/Cal/89, 1065/Cal/89.

Metallurgical & Engineering Consultants (I) Ltd.—102/Cal/89.

Mezhotrasalevoi Nauchno-Tekhnichesky Komplex "Mikrokhirurgia Glaza"—56/Del/89, 78/Del/89, 99/Del/89, 245/Cal/89, 337/Cal/89, 952/Cal/89.

Microgenesys, Inc.—106/Del/89.

Micropack Ltd.—428/Maa/89.

Middelburg Steel & alloys (Proprietary) Ltd.—8/Del/89, 422/Del/89.

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## M—Contd.

Midtec, Inc.—578/Del/89.

Minelli Ag.—492/Maa/89.

Miner Enterprises, Inc.—1179/Del/89.

Minnesota Mining & Manufacturing Co.—13/Maa/89, 14/Maa/89, 46/Maa/89, 57/Maa/89, 103/Maa/89, 124/Maa/89, 136/Maa/89, 140/Maa/89, 144/Maa/89, 165/Maa/89, 174/Maa/89, 184/Maa/89, 197/Maa/89, 207/Maa/89, 266/Maa/89, 303/Maa/89, 324/Maa/89, 325/Maa/89, 326/Maa/89, 370/Maa/89, 371/Maa/89, 416/Maa/89, 432/Maa/89, 434/Maa/89, 470/Maa/89, 494/Maa/89, 496/Maa/89, 564/Maa/89, 571/Maa/89, 586/Maa/89, 609/Maa/89, 621/Maa/89, 680/Maa/89, 688/Maa/89, 797/Maa/89, 804/Maa/89, 818/Maa/89, 854/Maa/89, 859/Maa/89, 860/Maa/89, 880/Maa/89, 881/Maa/89, 882/Maa/89, 923/Maa/89, 949/Maa/89.

Mining and Allied Machinery Corporation Ltd.—732/Cal/89.

Mirking, L.A.—889/Cal/89.

Miroslava Mikhailovna Babkina-Ussr.—832/Cal/89.

Mishra, A.—495/Del/89.

Mishra, A.C.—633/Del/89, 925/Del/89.

Mishra, C.—495/Del/89.

Mishra, N.G.—166/Bom/89.

Mishra, S. Dr.—255/Bom/89.

Mishra, S.P.—495/Del/89.

Mitra, A.N.—Dr.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.

Mitra, S.K.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.

Mitsuba Electric Manufacturing Co. Ltd.—590/Cal/89, 943/Cal/89, 1016/Cal/89.

Mitsubishi Denki Kabushiki Kaisha—324/Bom/89.

Mitsui Toatsu Chemicals Inc.—74/Maa/89, 114/Cal/89, 161/Cal/89, 190/Cal/89, 316/Cal/89, 335/Cal/89, 501/Del/89, 502/Del/89, 699/Cal/89, 822/Maa/89, 823/Maa/89, 824/Maa/89, 954/Cal/89.

Mittal, A.K.—30/Del/89.

Mittal, S.—824/Del/89.

Mitutoyo Corporation.—56/Cal/89, 118/Cal/89, 407/Maa/89, 408/Maa/89.

Mobacc B.V.—242/Maa/89, 369/Maa/89.

Mobil Oil Corporation.—222/Maa/89, 243/Maa/89.

Mobil Power Ag.—351/Del/89.

Mobil Solar Energy Corporation—453/Del/89.

## Name &amp; Appln. No.

## M—Contd.

Mogilevskoe Proizvodstvennoe Obiedinenie "Stromavtolinia"—595/Cal/89.

Mohan, L.—324/Del/89, 325/Del/89.

Mohanty, D.D.—18/Cal/89.

Mohanty, S.—165/Bom/89, 340/Bom/89.

Molind, J.L.—362/Del/89.

Moltech Invent S.A.—141/Maa/89.

Monkal Kommanditgesellschaft auf Aktien.—341/Maa/89.

Monoir Industries—694/Del/89.

Monolite S.r.l.—189/Cal/89.

Monsanto Co.—39/Maa/89, 267/Maa/89, 268/Maa/89, 616/Maa/89, 696/Maa/89, 867/Maa/89, 873/Maa/89.

Monteiro, I.A.J.—279/Bom/89.

Moosa, K.M.—625/Maa/89, 626/Maa/89, 627/Maa/89.

More, N.—120/Bom/89.

Moser, J.—899/Cal/89.

Moskovskaya Tabachnaya Fabrika "Yava" Ussr.—833/Cal/89.

Moskovskoe Nauchno Proizvodstvennoe Obiedinenie "Izmeritel"—210/Del/89.

Moskovsky Geologorazvedochny Institut Imeni Sergo Ordzhonikidze—446/Cal/89, 713/Del/89.

2 Moskovsky Gosudarstvenny Meditsinsky Institut Imeni N.I. Pirogova.—13/Cal/89, 43/Cal/89.

Moskovsky Filial Vsesojuznogo Nauchno-Issledovatel'skogo Instituta Zhirov-Ussr.—834/Cal/89.

Moskovsky Fiziko-Tekhnichesky Institut.—275/Cal/89.

Moskovsky Tekhnologichesky Institut-Ussr.—737/Cal/89.

Motorola Inc.—128/Del/89, 217/Del/89, 342/Del/89, 389/Del/89, 452/Del/89, 505/Del/89, 562/Del/89, 583/Del/89, 703/Del/89, 705/Del/89, 706/Del/89, 740/Del/89, 790/Del/89, 921/Del/89, 923/Del/89, 929/Del/89, 1116/Del/89, 1121/Del/89, 1137/Del/89, 1138/Del/89, 1140/Del/89, 1143/Del/89.

Mukherjee, C.R.—78/Cal/89, 167/Cal/89, 459/Cal/89, 634/Cal/89.

Mukherjee, D.—1018/Cal/89.

Mukherjee, S.—206/Cal/89.

Mukherjee, T. Dr.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.

Muller, F.F.—11/Cal/89.

## Name &amp; Appln. No.

## M—Contd.

Muller, O.G.—1216/Del/89.

Multiistack Pty. Ltd.—37/Mas/89.

Mulox IBC Ltd.—398/Mas/89.

Mutch, A.J.—893/Mas/89.

Muthiah, V.—328/Mas/89.

Muthu, T.—728/Mas/89.

## —N—

NGK Insulators, Ltd.—227/Cal/89, 234/Cal/89, 491/Cal/89, 849/Cal/89, 850/Cal/89, 999/Cal/89.

NKK Corporation.—249/Bom/89, 250/Bom/89.

N.V. Bekaert S.A.—718/Del/89.

N-Viro Energy System Ltd.—80/Cal/89.

Nabha, F.—913/Del/89.

Nabisco Brands, Inc.—373/Cal/89, 434/Cal/89.

Nadeem Electronics Pvt. Ltd.—1004/Del/89, 1123/Del/89.

Naderi, M.T.—951/Cal/89.

Nagarajan, T.S.—542/Mas/89.

Nagawkar, J.M.—302/Bom/89.

Nagama, V.K.—15/Cal/89.

Nagesh, K.—236/Mas/89, 237/Mas/89, 238/Mas/89, 239/Mas/89.

Nair, K.A.—121/Mas/89.

Nair, K.V.R.—311/Bom/89, 312/Bom/89, 313/Bom/89, 314/Bom/89, 315/Bom/89, 316/Bom/89, 317/Bom/89, 318/Bom/89, 319/Bom/89, 320/Bom/89.

Nair, M.A. Mrs.—404/Mas/89.

Nalge Co.—548/Del/89.

Namjoshi, A.N.—50/Bom/89.

Nanchand, S.V.—26/Bom/89.

Nanduri, V.—1128/Del/89.

Nanjundanaik Nagendra—379/Mas/89.

Narayana, K.L.—224/Bom/89.

Narula, S.S.—261/Bom/89.

Narula, U.S.—253/Bom/89.

## Name &amp; Appln. No.

## N—Contd.

Natarajan, S.—109/Mas/89.

Nath, R.G. Dr.—19/Mas/89.

National Council for Cement &amp; Building Materials.—64/Del/89, 378/Del/89, 499/Del/89, 588/Del/89.

National Dairy Development Board.—475/Cal/89, 476/Cal/89.

National Institute of Immunology—554/Del/89, 781/Del/89.

National Research Development Corporation.—29/Del/89, 181/Del/89, 196/Del/89, 357/Del/89, 358/Del/89, 456/Del/89, 457/Del/89, 458/Del/89, 459/Del/89, 798/Mas/89.

Nauchno-Issledovatel'sky Institut Fiziko-Khimicheskoi Meditsiny.—576/Cal/89.

Nauchno-Issledovatel'sky Institut Kommunalnogo Vodosnabzhenia I Ochistit Vody Akademii Kommunalnogo Khozyaistva Imeni K.D. Pamfilova.—603/Cal/89.

Nauchno-Issledovatel'sky Institut Po Epidemiologii I Microbiologii "N F GAMA-LAEA".—581/Mas/89.

Nauchno-Issledovatel'sky Institut Radiofiziki Imeni Akademika A.A. Rasplettna.—1132/Del/89.

Nauchno-Issledovatel'sky Institut Tekhnologii I Bezopasnosti Lekarsvennykh Sredstv.—142/Del/89.

Nauchno-Proizvodstvennoe Obiedinie "Biolar" Akademii Nauk SSSR.—245/Cal/89.

Nauchno-Proizvodstvennoe Obiedinenie Po Mekhanizatsii, Robotizatsii Trudai Sovershenstvovaniyu Remontnogo Obespechenia Na Predpriyatiakh Chernoi Metallurgii NPO "Chernmetmetkhanizatsia".—4/Cal/89, 37/Cal/89.

Nauchno-Proizvodstvennoe Obiedinenie tekhnologii traktornogo i selakokhozyaistvenno-ogo Mashinostroenia "Niltraktoroselkhozmas".—224/Del/89.

Nauchno-Proizvodstvennoe Obiedinenie "Magneton" USSR.—681/Cal/89, 682/Cal/89.

Nautical Development, Inc.—594/Del/89.

Nazir, C.P.—277/Cal/89.

NEDELLA.—161/Mas/89.

Neelakantan, O.M.—94/Mas/89.

Neff Gewindespindeln GmbH.—530/Cal/89.

Nelson, N.A.—293/Cal/89.

Nene, V.R.—540/Del/89.

Neradov, V.P.—896/Cal/89.

Nerurkar, H.M.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.

Name & Appln. No.	Name & Appln. No.
N—Contd.	N—Contd.
Nessa, N.—666/Del/89.	Nucleus Enterprise Ltd.—894/Mas/89.
Neuromedical Systems, Inc.—295/Del/89.	Nuova Samim S.p.A.—345/Mas/89.
Nevsky, L.V.—657/Cal/89.	Nuova Sircop Engineering S.R.L.—214/Cal/89.
Newaz, M.A.—572/Cal/89, 597/Cal/89.	Nu-Pipe, Inc.—274/Mas/89, 714/Mas/89.
New England Biolabs, Inc.—734/Mas/89, 735/Mas/89.	—O—
Newly Weds Foods Inc.—559/Mas/89.	O & K Orenstein—226/Cal/89, 365/Cal/89.
Nichhanbhai, P.L.—140/Bom/89.	O-I Brocckway Glass, Inc.—662/Mas/89.
Nico-Pyrotechnik Hanns-Jurgen Diederichs GmbH. & Co. KG.— 636/Cal/89, 1012/Cal/89.	Oil & Natural Gas Commission—59/Del/89, 60/Del/89, 61/Del/89, 62/Del/89, 63/Del/89, 476/Del/89, 477/Del/89, 478/Del/89, 969/Del/ 89.
Nika Health Products Ltd.—137/Bom/89.	OI-Neg Television Products, Inc.—202/Mas/89.
Niky Tasha India Pvt. Ltd.—330/Del/89.	Ole-Bendt Rasmussen.—487/Mas/89.
Nimbkar Agricultural Research Institute.—907/Del/89.	OLga Julianovna Khenven-Ussr.—832/Cal/89.
Nippon Shokubai Kagaku Kogyo Co. Ltd.—176/Mas/89.	Olin Corporation—83/Del/89.
Nirody, S.J. Mrs.—49/Bom/89.	Oliver Rubber Co.—175/Cal/89, 730/Cal/89.
Nitrokemia Ipartelepek.—115/Cal/89, 116/Cal/89.	Omar, A.W.—820/Mas/89.
Nitro Nobel Ab.—827/Cal/89.	Omar, K.—820/Mas/89.
Nitaberg, L.V.—889/Cal/89.	OM-Ind Electrical Electronics (P) Ltd.—605/Mas/89.
Nittox Kagaku Kogyo Kabushiki Kaisha.—881/Del/89.	On Chandra Kafley of Padma Cottage, OM'S—186/Cal/89.
Noble, J.B.—937/Cal/89.	Ono, T.—825/Cal/89.
Noor, K.H.A.H.—896/Mas/89.	Opti Patent-Forschun chungs-Und Fabrikations-Ag.—484/Cal/89, 485/Cal/89.
Normalair Garrett (Holdings) Ltd.—98/Mas/89.	Orbital Sciences Corporation.—226/Del/89.
Norak Hydro A.S.—183/Del/89, 643/Del/89, 758/Del/89, 1188/Del/89, 1189/Del/89, 1190/Del/89.	Oriental Relays Pvt. Ltd.—535/Cal/89.
Norsolor.—448/Cal/89, 475/Del/89.	Orissa Cement Ltd.—689/Cal/89, 697/Cal/89.
Northern Engineering Industries Plc.—180/Mas/89.	Ormat Systems, Inc.—981/Cal/89.
Northern territory of Australia Industries Development Department The—186/Del/89, 187/Del/89.	Ortho Pharma Pvt. Ltd.—339/Cal/89.
Norton Co.—444/cal/89, 701/Del/89.	Oronzio De Nora Impianti Elettro-chimici SpA.—419/Mas/89.
Novatech Energy Systems Inc.—68/Mas/89.	Otto India Pvt. Ltd.—128/Cal/89.
Novel Energy (P) Ltd.—406/Del/89.	Owens-Corning Fiberglas Corporation.—69/Cal/89.
Novo Industri A/S.—125/Mas/89.	Owens-Illinois Closure Inc.—532/Mas/89, 617/Mas/89, 636/Mas/89, 737/Mas/89, 794/Mas/89, 942/Mas/89, 950/Mas/89.
Novosibirsky Gosudarstvenny Universitet Imeni Leninskogo Komsomola.—293/Del/89.	Oxford Virology Ltd.—844/Mas/89.
Nuchem Plastics Ltd.—584/Del/89, 1015/Del/89.	

## Name &amp; Appln. No.

## O—Contd.

Oy, H.—73/Cal/89.

Oy, K.—5/Mas/89, 945/Mas/89.

Oy, N.—243/Cal/89, 429/Cal/89, 1066/Cal/89.

Oy Sekko Ab—505/Cal/89.

## —P—

PED Ltd.—903/Cal/89.

PKS Engineering GmbH &amp; Co. KG.—269/Del/89.

P.L. Smidth &amp; Co. A/S.—918/Mas/89.

PPG Industries, Inc.—312/Cal/89, 655/Cal/89, 772/Cal/89,  
974/Del/89, 975/Del/89.

Padhi, B.—338/Cal/89.

Pakeda Chemical Industries Ltd.—928/Mas/89.

Pal, A.K.—197/Cal/89.

Palkar, R.B.—187/Bom/89.

Pall Corporation—126/Mas/89.

Palmer Tube Mills (Sust) Pty. Ltd.—468/Del/89, 470/Del/89.

Panchal, M.H.—207/Bom/89.

Panchal, V.D.—347/Bom/89.

Pandian, T.J. Dr.—254/Mas/89.

Pandya, S.S.—1192/Del/89, 1193/Del/89.

Pannalal, N.—158/Bom/89, 167/Bom/89.

Pannevis B.V.—352/Del/89.

Paramount Sinters Pvt. Ltd.—27/Bom/89.

Parasight, Y.K.—272/Mas/89.

Parekh, H.L.—108/Bom/89.

Parikhe, V.D.—344/Bom/89, 345/Bom/89.

Parimal &amp; Co.—107/Bom/89.

Parke Davis Pty. Ltd.—201/Del/89.

Parker, W.P.—989/Mas/89.

Pastor, E.S.—619/Cal/89.

Pastor, V.S.—619/Cal/89.

Patankar, B.V.—278/Mas/89.

## Name &amp; Appln. No.

## P—Contd.

Patel, A.R.—97/Bom/89.

Patel, B.N.—201/Bom/89, 202/Bom/89, 203/Bom/89.

Patel, M.—338/Cal/89.

Patel, M.E.—282/Bom/89.

Patel, R.V.—96/Bom/89.

Patel, S.B.—232/Bom/89, 259/Bom/89.

Patel, V.D.—97/Bom/89.

Poclain Hydraulics.—848/Del/89.

Poroiko, N.V. USSR.—706/Cal/89.

Polleya, B.D.—495/Cal/89.

Poltavsky Gosudarstvenny Pedagogicheskyy Institut Imeni V. G.  
Korolenko.—686/Del/89.Poluddiowy Okreg Energetyczny Katowice Elektrownia Luziska.—  
381/Del/89.

Polyak, M.U.—562/Cal/89.

Polyfibre S.A.—842/Cal/89.

Polymer Papers Ltd.—1/Del/89, 2/Del/89, 104/Del/89, 105/Del/89.

Polynorm N.V.—687/Mas/89.

Polysar Financial Services S.A.—474/Mas/89.

Polysar Ltd.—911/Mas/89.

Polyolefins Industries Ltd.—79/Bom/89.

Polyure, Inc.—1160/Del/89.

Poonawala, D.C.—61/Bom/89.

Potdar, D.B.—336/Bom/89.

Powcon Incorporated.—427/Del/89.

Pozzi, D.—494/Del/89.

Pozzi, J.P.—494/Del/89.

Prabhu, M.K.—916/Mas/89.

Prakash, V.—81/Del/89.

Pramatome.—311/Mas/89.

Prasad, M.V.S.S.—138/Mas/89.

Predpriyatie "Daltekhenergo" Proizvodstvennogo Obiedinenia  
Po Naladke, Sovershenstvovaniyu Tekhnologii I ekspluatatsii  
Elektrostantskiy I Setei "Soujztekhnenergo".—575/Cal/89.

## Name &amp; Appln. No.

## P—Contd.

Pre-Mac (Kent) Ltd.—149/Mas/89.

Pressers International Products Inc.—292/Del/89.

Preussag Aktiengesellschaft.—640/Cal/89.

Prev Electrosark Pvt. Ltd.—145/Bom/89.

Principal Scientist & Head, The Sir Padampat Research Centre.—1013/Del/89, 1127/Del/89, 1133/Del/89, 1176/Del/89.

Process Scientific Innovations Ltd.—129/Mas/89.

Procter & Gamble Co. The.—76/Del/89, 238/Del/89, 305/Del/89, 306/Del/89, 363/Del/89, 364/Del/89, 536/Del/89, 557/Del/89, 609/Del/89, 610/Del/89, 709/Del/89, 717/Del/89, 761/Del/89, 762/Del/89, 939/Del/89, 940/Del/89, 976/Del/89, 1009/Del/89, 1074/Del/89, 1227/Del/89, 1229/Del/89.

Paterson, Zochonia (U.K.) Ltd.—675/Del/89.

Pathak, N.—495/Del/89.

Pathak, N. Shri.—649/Cal/89.

Patil, A. G. Prof.—236/Bom/89, 237/Bom/89.

Patnaik, S.C.—1070/Cal/89.

Patwardhan, B.K.—8/Bom/89.

Paul, S.P.—490/Del/89, 491/Del/89.

Paul Wurth S.A.—282/Del/89, 532/Del/89, 541/Del/89, 770/Del/89, 1178/Del/89.

Pawar, D.M.—257/Bom/89.

Ped Ltd.—327/Bom/89.

Pencell Co. Ltd.—513/Cal/89, 974/Cal/89.

Penguin Envelopes Co.—329/Mas/89.

Pennwalt Corporation.—59/Cal/89, 577/Cal/89, 742/Cal/89, 762/Cal/89, 763/Cal/89, 913/Cal/89, 1043/Cal/89.

Peppermini Springs Pty. Ltd.—345/Del/89.

Perkin-Elmer Corporation, The.—365/Mas/89.

Permian Research Corporation.—419/Del/89.

Pervushin, E.S.—289/Del/89.

Pesto K.G.—196/Mas/89.

Petainer S.A.—822/Cal/89.

Petersen Manufacturing Co. Inc.—985/Del/89.

Petrakov, V.P.—242/Del/89.

## Name &amp; Appln. No.

## P—Contd.

Pfizer Hospital Products Group, Inc.—213/Del/89, 256/Del/89, 568/Del/89, 870/Del/89.

Pfizer Inc.—214/Del/89, 215/Del/89, 216/Del/89, 634/Del/89, 649/Del/89, 842/Del/89, 1094/Del/89, 1184/Del/89.

Pharmacia-ENI Diagnostica, Inc.—231/Mas/89.

Philip Morris Products Inc.—187/Mas/89, 544/Mas/89, 545/Mas/89, 546/Mas/89, 547/Mas/89, 838/Mas/89.

Phillips Petroleum Co.—131/Cal/89, 298/Cal/89, 388/Cal/89, 461/Cal/89, 722/Cal/89, 778/Cal/89, 1000/Cal/89, 1053/Cal/89.

Piaggio Veicoli Europei S.r.l.—928/Del/89.

Pianetti, F.—755/Cal/89.

Pilkington PLC.—738/Mas/89.

Pillai, G.S.—445/Mas/89.

Pires, P.B.—643/Cal/89.

Plasma Energy Corporation.—871/Mas/89.

Plasticon Patents S.A.—653/Cal/89.

Plessey Overseas Ltd.—20/Mas/89, 241/Mas/89, 722/Mas/89.

Procter & Gamble Co. The.—1248/Del/89, 1264/Del/89, 1265/Del/89.

Proektno-Konstruktorakoe Bjuro Akademii Kommunalnogo Khozaystva Imeni K. D. Pamfilova.—603/Cal/89.

Professional Electronic Products.—488/Del/89.

Proizvodstvennoe Obiedinenie "Novokramatorsky Mashinostroitelny Zavod" USSR.—5/Cal/89, 404/Cal/89, 1059/Cal/89.

Proizvodstvennoe Obiedinenie "Nevsky Zavod" Imeni V.I. Lenina USSR.—5/Cal/89, 404/Cal/89, 1059/Cal/89.

Progressive Industries.—682/Del/89.

Projects & Development India Ltd.—12/Cal/89, 973/Cal/89, 1026/Cal/89.

Pro-Neuron, Inc.—310/Mas/89, 513/Mas/89.

Pure-Harvest Corporation.—235/Cal/89.

Puri, K.K.—754/Del/89.

Puri, M.L.—331/Del/89.

Purnachandran, N.—927/Cal/89, 928/Cal/89, 929/Cal/89, 930/Cal/89, 931/Cal/89, 932/Cal/89, 933/Cal/89, 934/Cal/89.

Purolator India Ltd.—135/Del/89.

Putch, S.W.—293/Cal/89.

Puthuvath, B.—766/Mas/89.

## Name &amp; Appln. No.

## —Q—

Q Sound Ltd.—777/Del/89.

Qajera, R.N.—201/Bom/89, 202/Bom/89, 203/Bom/89.

## —R—

RAD/RED Laboratories Inc.—65/Del/89.

R &amp; C Products Pty. Ltd.—403/Del/89.

R &amp; R Inventions Ltd.—146/Del/89.

Rca Licensing Corporation.—129/Cal/89, 380/Cal/89, 381/Cal/89, 563/Cal/89, 578/Cal/89, 745/Cal/89, 936/Cal/89.

REM Chemicals, Inc.—757/Del/89.

R. J. Reynolds Tobacco Co.—303/Cal/89, 591/Cal/89.

RXS Schrumpftechnik-Garnituren GmbH.—844/Cal/89.

Raadgivende Ingenioer Menning Joergensen.—169/Maa/89.

Radelkis Elektrokemial Muszergyarto Ipari Szovetkezet.—1250/Del/89.

Radhakrishna, G.—633/Maa/89.

Radiotekhnicheskyy Institut Imeni Akademika A.L. Mintsy Akademii Nauk SSSR.—656/Cal/89.

Radiotekhnicheskyy Institut Imeni Akademika A.L.—2/Cal/89.

Radukan, E.S.—889/Cal/89.

Rafique, S.M.—88/Bom/89.

Raghavan, P.R.V.—899/Maa/89.

Rai, A.K.—668/Del/89, 693/Del/89.

Rajagopalan, D.N.M.—12/Maa/89.

Rajam, M.V. Dr.—1129/Del/89, 1130/Del/89.

Rajendran, A.—282/Maa/89.

Raju, R.S.—560/Maa/89, 811/Maa/89.

Rajvanshi, A.K.—907/Del/89.

Ralph Habel Hoyeck —149/Cal/89.

Ralph Weber.—823/Cal/89.

Ramaswamy, K.K.—173/Maa/89.

Ramsthnam, V.R.—210/Maa/89.

Ranadiva, H.M.—267/Bom/89.

Ranboxy Laboratories Ltd.—37/Del/89, 73/Del/89, 1019/Del/89.

## Name &amp; Appln. No.

## R—Contd.

Rane, M.—778/Maa/89.

Rangen, C.T. Smt.—667/Maa/89.

Rangasamy, V.—296/Maa/89.

Ranghachary, K.A.—212/Maa/89, 458/Maa/89, 459/Maa/89, 479/Maa/89.

Rao, A.S.—45/Maa/89, 339/Maa/89.

Rao, B.M.L.—199/Del/89.

Rao, D.N.—110/Maa/89.

Rao, K.R.K.—255/Bom/89.

Rao, L.G.—490/Maa/89.

Rao, M.—657/Maa/89.

Rao, N.K.—812/Maa/89.

Rao, P.S.—832/Maa/89.

Raoulparienti.—576/Del/89.

Rao, V.J.M.—257/Maa/89.

Rao, Y.S.—313/Del/89.

Raphael, B.—385/Cal/89.

Raphael, J.J. (II).—385/Cal/89.

Raphael, J.J. (III).—385/Cal/89.

Raphael, S.R.—385/Cal/89.

Rashinkar, N.V. Mrs.—84/Bom/89.

Rasmussen, O.B.—281/Maa/89, 570/Maa/89.

Rathi Engineering Works.—325/Bom/89.

Rathore, H.K.—977/Cal/90.

Rautio, K.—287/Cal/89.

Ravindranath, M. Dr.—633/Maa/89.

Ravishankar, N.—895/Maa/89.

Raychen Corporation.—181/Maa/89.

Rebuffat, C.—691/Maa/89.

Redding, B.K. Jr.—196/Cal/89.

Redeco Ag.—963/Cal/89.

Reed, D.G.W.—775/Del/89.

Reed, Packaging Ltd.—409/Del/89, 428/Del/89, 429/Del/89.

Refac International Ltd.—632/Del/89.

Name & Appln. No.  
R—Contd.

Reiter, G.—690/Cal/89.

Reliance Electric Industrial Co.—563/Del/89.

Reliznce Electric Co.—1156/Del/89.

Rengasamy, R. Dr.—340/Maa/89.

Reo Ltd. Partnership.—237/Cal/89.

Reeal International Ltd.—223/Cal/89, 343/Cal/89.

Research Foundation of State University of New York. The.—774/Maa/89.

Research Foundation for Microbial Diseases of Osaka University.—208/Cal/89, 724/Cal/89, 1126/Del/89.

Research Institute of Beijing Yanahan Petrochemical Corporation.—98/Cal/89.

Rex, A.E.—454/Cal/89.

Rexnord Corporation.—192/Cal/89.

Raghavan, P.R.V.—417/Maa/89.

Rhone-Poulenc Chimie.—130/Maa/89, 422/Maa/89, 915/Maa/89, 935/Maa/89.

Richard, J.A.—31/Maa/89.

Richter, G.R.—745/Del/89.

Rieter Machine Works Ltd.—534/Maa/89.

Roads & Traffic Authority.—246/Cal/89.

Robbins, E.S. (III).—9/Cal/89.

Robert Boach GmbH.—729/Maa/89.

Rockwell Golde GmbH.—534/Cal/89.

Rockwell International Corporation.—519/Maa/89.

Rogers, J.H.—412/Maa/89.

Rohatgi, K.K.—717/Cal/89.

Rohm & Haas Co.—57/Del/89, 82/Del/89, 118/Del/89, 270/Del/89, 565/Del/89, 641/Del/89, 680/Del/89, 728/Del/89, 1026/Del/89.

Rolf Hanning Steinbock.—311/Cal/89.

Rosen, H.E.—669/Cal/89.

Rosink GmbH & Co.—810/Maa/89.

Roure S.A.—540/Maa/89.

Routh, M.K.—332/Cal/89.

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R—Contd.

Routh, P.K. Shri.—557/Cal/89, 558/Cal/89.

Rover Group Ltd.—762/Maa/89.

Rowther, M.I.S.—756/Maa/89.

Roychowdhury, S.—256/Maa/89.

Roy, P.—727/Del/89.

Roy, S.N.—370/Cal/89.

Roy, S.P.—520/Cal/89, 612/Cal/89.

Rudolf Hausherr & Sohne GmbH.—209/Cal/89.

Russell D. Ide.—434/Del/89, 435/Del/89, 636/Del/89.

Rutchinsen & Merip Oil Tools International.—43/Maa/89.

Ryan, F.A.—747/Del/89.

—S—

SAB NIFE Power Systems Ltd.—656/Maa/89.

SAES Getters spa.—294/Maa/89.

SCM Corporation.—908/Cal/89.

Skw Trostberg Aktiengesellschaft.—758/Cal/89.

S.N. Industries.—839/Del/89.

SSPL Safe Sex Products Licensing.—618/Del/89.

STC Components (Proprietary) Ltd.—982/Del/89.

STC Plc.—206/Del/89, 858/Del/89.

Sabapathy, N. Mr.—866/Maa/89.

Sabharwal, A.S.—137/Del/89.

Sabharwal, R.—328/Del/89.

Sab Nife AB.—240/Del/89, 243/Del/89.

Sachdeva, S.—1266/Del/89.

Saft.—820/Del/89.

Saini, A.—328/Del/89.

Saini, G.C.—898/Cal/89.

Saini, R.R.S.—631/Del/89.

Salplex Ltd.—34/Del/89, 336/Del/89.

Samsung Electron Devices Co. Ltd.—209/Bom/89, 891/Cal/89, 892/Cal/89, 904/Cal/89, 915/Cal/89, 918/Cal/89, 922/Cal/89, 944/Cal/89,

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970/Cal/89, 971/Cal/89, 977/Del/89, 978/Del/89, 979/Del/89, 1010/Del/89, 1021/Del/89, 1022/Del/89, 1023/Del/89, 1024/Del/89, 1032/Cal/89, 1056/Del/89, 1057/Del/89, 1061/Del/89, 1062/Del/89, 1071/Cal/89, 1148/Del/89, 1149/Del/89, 1150/Del/89, 1151/Del/89, 1152/Del/89, 1153/Del/89, 1154/Del/89, 1155/Del/89.

Samuel Fitz & Co. Ltd.—428/Cal/89.

Sananayake, D.R.—1055/Del/89.

Sandaco, S.A.—467/Cal/89.

Sandhu, S.J.S.—62/Bom/89.

Sandoz Ltd.—27/Maa/89, 86/Maa/89.

Sandvik Rock Tools, Inc.—22/Del/89.

Sane, S.S.—175/Bom/89.

Sanghani, S.K. Dr.—356/Bom/89.

Sanosil AG.—888/Del/89.

Santa Barbara Research Center.—415/Del/89.

Santrade Ltd.—146/Cal/89.

Sardesai, H.—57/Bom/89, 58/Bom/89.

Sarin Research & Development Ltd.—445/Cal/89.

Sarkar, R.K. Dr.—528/Cal/89.

Sarng, S.S.—980/Cal/89.

Sasikumar, S.N.—446/Maa/89.

Satapathy, B.K. Dr.—1070/Cal/89.

Sathaye, G.V.—71/Bom/89.

Savio S.p.A.—924/Maa/89.

Sawadi Exports Pty. Ltd.—341/Del/89.

Sawhney, S.S.—432/Del/89.

Scapa Group Plc.—492/Del/89.

Schampion Spark Plug Europe S.A.—262/Del/89.

Schenck Auto Service Gerate GmbH.—109/Del/89.

Schlumberger Industries, Inc.—318/Maa/89, 329/Cal/89.

Schlumberger Ltd.—507/Maa/89, 516/Maa/89.

Schmehling, G.—768/Maa/89.

Schmidt, P.—848/Cal/89.

Schock & Co. GmbH.—725/Cal/89.

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Schubert & Salzer Maschinenfabrik Aktiengesellschaft.—195/Maa/89, 517/Maa/89, 527/Maa/89, 821/Maa/89.

Schwolsky, P.M.—221/Cal/89.

Scientific Design Co., Inc.—507/Del/89.

Sea-Hawk Marine & Allied Services Private Ltd.—40/Bom/89.

Search Biological Technology Co.—1226/Del/89.

Searle (I) Ltd.—76/Bom/89, 77/Bom/89, 78/Bom/89.

Secretary, Department of Science & Technology, The.—805/Del/89, 806/Del/89.

Secretary of State for defence in her britannic majesty's Government of the United Kingdom of Great Britain & Northern Ireland, The.—1131/Del/89.

Seisakusho, K.K.S.—267/Del/89.

Senanayake, D.R.—804/Del/89.

Sengupta, K.K.—740/Cal/89.

Sengupta, R.R.—740/Cal/89.

Sen, K.K.—120/Cal/89.

Sen, M. Dr.—40/Cal/89, 411/Cal/89, 552/Cal/89.

Sen, N.K.—120/Cal/89.

Sen, S.K.—90/Cal/89.

Sensortech, L.P.—596/Cal/89.

Separation Dynamics, Inc.—28/Maa/89, 30/Maa/89, 56/Maa/89, 321/Maa/89, 450/Maa/89, 555/Maa/89, 851/Maa/89, 870/Maa/89.

Sepracor, Inc.—261/Maa/89, 796/Maa/89.

Sethna, H.N. Dr.—345/Cal/89.

Seth, N.K.—151/Bom/89.

Sexena, A.K.—134/Del/89.

Shafir, A.—886/Maa/89.

Shagun, V.A.—242/Del/89.

Shah, A.K.—615/Del/89.

Shah, S.H.—192/Bom/89.

Shah, S.R.—332/Bom/89.

Shah, V.C.—172/Bom/89, 181/Bom/89, 328/Bom/89.

Shamsuddin, A.M.—492/Cal/89.

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Shanta International.—1117/Del/89.

Shapurkar, S.—193/Bom/89, 194/Bom/89, 195/Bom/89, 196/Bom/89, 197/Bom/89, 198/Bom/89, 199/Bom/89, 200/Bom/89.

Sharkan, A.L.—11/Maa/89.

Sharma, A.—172/Del/89.

Sharma, B.A.V.K.—60/Maa/89, 61/Maa/89.

Sharma, G.N.—665/Del/89.

Sharma, G.S.—18/Del/89.

Sharma, H.K.—172/Del/89.

Sharma, J.C.—132/Del/89.

Sharma, N.K.—580/Cal/89.

Sharma, S.K.—193/Del/89.

Sharma, O.S.—74/Del/89.

Sharma, S.P. Dr.—242/Bom/89.

Shek, K.C.—890/Cal/89.

Sheldon, R.—893/Maa/89.

Shell Internationale Research Maatschappij B.V.—94/Del/89, 236/Del/89, 249/Maa/89, 311/Del/89, 394/Maa/89, 473/Maa/89, 702/Maa/89, 743/Maa/89, 776/Maa/89, 934/Maa/89, 980/Del/89, 1215/Del/89.

Shell Oil Co.—943/Maa/89.

Shet, G.V.—7/Maa/89, 263/Maa/89.

Shin-Etsu Film Co., Ltd.—184/Cal/89.

Shivaprasad, K.S.—521/Maa/89.

Showa Denko Kabushiki Kaisha.—878/Maa/89.

Shri A.M.M. Murugappa Chettiar Research Centre.—29/Del/89.

Shriram Institute for Industrial Research.—87/Del/89, 88/Del/89, 933/Del/89, 998/Del/89, 999/Del/89, 1000/Del/89, 1001/Del/89.

Shrivastava, O. Dr.—23/Bom/89.

Shroff, R.D.—268/Bom/89.

Shulta, N.M.—361/Cal/89.

Sibirsky Nauchno Issledovatel'sky Institut Energetiki (Sibnite).—531/Del/89.

Sico Incorporated.—153/Cal/89, 525/Cal/89.

Sicpa Holding S.A.—295/Cal/89.

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## S—Contd.

Siemens Aktiengesellschaft.—19/Cal/89, 52/Cal/89, 53/Cal/89, 70/Cal/89, 91/Cal/89, 130/Cal/89, 238/Cal/89, 241/Cal/89, 326/Cal/89, 328/Cal/89, 360/Cal/89, 375/Cal/89, 378/Cal/89, 430/Cal/89, 431/Cal/89, 439/Cal/89, 440/Cal/89, 478/Cal/89, 533/Cal/89, 561/Cal/89, 613/Cal/89, 792/Cal/89, 910/Cal/89, 959/Cal/89, 1035/Cal/89.

Simmonds Precision Products, Inc.—683/Maa/89.

Simplex Castings M/S.—55/Bom/89.

Simpson, J.M.—135/Maa/89.

Singhal, S.—1122/Del/89.

Singh, G. Captain Retired.—232/Del/89.

Singh, H.—996/Del/89.

Singh, J.—616/Del/89, 617/Del/89.

Singh, L.N.—605/Cal/89.

Singh, S.K.—862/Del/89.

Singh, U.—261/Bom/89.

Sinha, H.P.—553/Cal/89.

Sinniah, N.S.V.—780/Maa/89, 781/Maa/89, 782/Maa/89.

Sintermetallwerk Krebsoe GmbH.—182/Del/89, 1146/Del/89.

Sirkar, A.K. Dr.—514/Cal/89.

Smith Glass Products Pvt. Ltd.—6/Bom/89, 7/Bom/89.

Smit Offshore Contractors B.V.—254/Cal/89, 259/Cal/89.

Snamprogetti S.p.A.—767/Maa/89.

Snelling, P.J.—287/Maa/89.

Societe Anonyme Dite : Compagnie De Raffinage Et De Distribution Total France.—68/Cal/89.

Societe Chimique Des Charbonnages S.A.—1/Cal/89, 320/Del/89.

Societe De Conseils De Recherches Et D.—312/Del/89, 875/Del/89, 876/Del/89.

Societe Des Produits Nestle S.A.—297/Maa/89, 740/Maa/89.

Societe D'Expansion Scientifique Expansia.—833/Del/89.

Societe Europeenne De Propulsion.—1069/Del/89, 1158/Del/89.

Societe Europeenne Des Produits Refractaires.—131/Del/89, 605/Del/89.

Societe Nationale D'Etude Et De Construction De Moteurs D'Aviation, S.N.E.C.M.A.—125/Del/89, 165/Del/89.

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## S—Contd.

Societe Nationale Des Poudres Et Explosifs.—1125/Del/89.  
 Societe Nationale Industrielle.—819/Del/89.  
 Sohana, J.—121/Mas/89.  
 Sokolov, J.V.—242/Del/89.  
 Soltec Research Pty. Ltd.—201/Del/89.  
 Sollac.—725/Mas/89.  
 Solvay & Cie.—119/Del/89, 141/Del/89, 147/Del/89, 202/Del/89, 793/Del/89, 1028/Del/89.  
 Somar Corporation.—614/Cal/89.  
 Sommonwealth Scientific & Industrial Research Organisation.—788/Mas/89.  
 Soni, K.C.—159/Del/89.  
 Sookla, R.R.—337/Bom/89.  
 Sorelec.—1217/Del/89.  
 Sorg GmbH & Co. Kg.—194/Mas/89, 884/Mas/89.  
 Sotralentz S.A.—787/Cal/89.  
 Southern Petro-chemical Industries Corporation Ltd.—251/Mas/89, 745/Mas/89.  
 Southern Research Institute.—205/Mas/89, 742/Mas/89.  
 South India Textile Research Association The.—313/Mas/89.  
 Special Pneumatics Pvt. Ltd.—881/Cal/89.  
 Spetsialnoe Konstruktorsko Tekhnologicheskoe Bjuro Kataliz Atorovs Opytnym Zavodom.—302/Del/89.  
 Srikanth, S. (Smt.).—42/Bom/89.  
 Srinivasan, P.R.—92/Mas/89, 93/Mas/89.  
 Srinivasan, S. Smt.—210/Mas/89.  
 Srivastava, R.M.—122/Bom/89.  
 Staedtler & Uhl.—1051/Cal/89.  
 Stamicarbon B.V.—58/Mas/89, 59/Mas/89, 245/Mas/89, 349/Mas/89, 395/Mas/89, 733/Mas/89.  
 Standard Oil Co. The.—175/Del/89, 945/Del/89.  
 Standipack Pvt. Ltd.—329/Del/89, 883/Del/89, 884/Del/89, 936/Del/89, 937/Del/89, 938/Del/89, 968/Del/89, 1214/Del/89.  
 Stangl, K. (Dipl. Ing.).—272/Cal/89.  
 Stanly, I.—308/Mas/89.

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Steel Authority of India Ltd.—75/Del/89, 319/Del/89, 370/Del/89, 394/Del/89, 970/Del/89, 1040/Del/89, 1075/Del/89, 1089/Del/89.  
 Steelsworth Ltd.—863/Cal/89.  
 Steinert Elektromagnetbau GmbH.—301/Del/89.  
 Stein, A.—316/Del/89.  
 Stein-Haurtey.—473/Del/89, 1124/Del/89, 1135/Del/89.  
 Stein Industrie.—1220/Del/89.  
 Stelco Inc.—368/Cal/89.  
 Stemcor Corporation.—849/Del/89.  
 Stephen, D.—83/Mas/89.  
 Sterimatic Holdings Ltd.—701/Mas/89.  
 Stern & Leonard Associates.—215/Mas/89.  
 Stig Ravn A/S.—244/Del/89.  
 Still Otto GmbH.—128/Cal/89.  
 Stockham Valve Australia Pty. Ltd.—761/Cal/89.  
 Stokeld, W.R.—152/Mas/89.  
 Stone & Webster Engineering Corporation.—154/Cal/89.  
 Stopping Ag.—589/Cal/89.  
 Storopack Hans Reichenecker GmbH. + Co.—19/Bom/89.  
 Strumbos, W.P.—124/Del/89.  
 Sturm, Ruger & Co., Inc.—465/Mas/89, 666/Mas/89.  
 Subramaniam, K.G.—724/Mas/89, 777/Mas/89.  
 Sudarshan, S.—423/Mas/89, 455/Mas/89, 835/Mas/89.  
 Sud, R.L.—86/Bom/89.  
 Sujatha, R. Smt.—523/Mas/89.  
 Sukla, R.R.—337/Bom/89.  
 Sulzer-Escher Wyss Ag.—139/Mas/89.  
 Sumitomo Metal Industries Ltd.—839/Mas/89.  
 Sundaram-Clayton Ltd.—684/Mas/89.  
 Sundaram, S.—897/Mas/89.  
 Sundaram, S. Smt.—158/Mas/89.  
 Supnekar, P.V.—15/Bom/89.

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## S—Contd.

Surve, S.S.—309/Bom/89.

Suryanarayanan, K.C.—223/Maa/89.

Susela, V.—257/Maa/89.

Sutar, V.R.—129/Bom/89.

Svetlana Mikhailovna Firger-USSR.—832/Cal/89.

Svistunova, E.V.—889/Cal/89.

## —T—

T.J. Gundlach Machine Co.—844/Del/89, 1259/Del/89.

TKAC RIMM Enterprises Ltd.—19/Del/89.

TTC Machinery Manufacturing Co.—252/Maa/89.

TVS-Suzuki Ltd.—66/Maa/89, 67/Maa/89, 171/Maa/89, 172/Maa/89, 192/Maa/89, 391/Maa/89, 396/Maa/89, 402/Maa/89, 418/Maa/89.

Taga, Y.—210/Bom/89.

Taher, A.M.—20/Bom/89.

Takeda Chemical Industries, Ltd.—658/Maa/89, 769/Maa/89.

Tanning Technologies Pty. Ltd.—467/Maa/89.

Thagaonkar, G.S.—276/Bom/89.

Thurk Plastics Pvt. Ltd.—298/Del/89.

Tashmentsky Gosudarstvenny Universitet Imeni V.I. Lenina USSR.—65/Cal/89.

Tata Iron &amp; Steel Co. Ltd.—553/Cal/89, 554/Cal/89, 686/Cal/89, 687/Cal/89.

Tata Oil Mills Co. Ltd. The.—252/Bom/89.

Tataraky Gosudarstvenny Nauchno-Issledovatel'sky I Proektny Institut Nefyanoi Promishlennosti.—38/Cal/89, 661/Cal/89, 662/Cal/89, 680/Cal/89, 1210/Del/89.

Tates.—286/Maa/89.

Tatra, Kombinat Koprivnice.—764/Cal/89.

Tazhenkov, B.A.—657/Cal/89, 741/Cal/89.

Tbacher, R.P.—1076/Del/89.

Tea Research Association.—703/Cal/89.

Technipart S.A.—43/Del/89.

Technisearch Ltd.—448/Maa/89.

Tecnostal S.A. Industria E Tecnologia.—276/Cal/89.

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## T—Contd.

Tecumseh Products Co.—246/Maa/89, 583/Maa/89, 795/Maa/89, 819/Maa/89.

Teevac Ltd.—843/Cal/89.

Telefonica De Espana, S.A.—670/Del/89, 1072/Cal/89.

Telemecanique.—935/Del/89, 1082/Del/89.

Tenfjord A.S.—378/Maa/89.

Tenneco Canada Inc.—624/Del/89.

Tetrahex, Inc.—430/Del/89.

Texaco Development Corporation.—54/Cal/89, 182/Cal/89, 299/Cal/89, 391/Cal/89, 394/Cal/89, 414/Cal/89, 957/Cal/89, 998/Cal/89, 1042/Cal/89.

Texas A &amp; M University System. The.—426/Maa/89.

Thaikattil, J. Dr.—1/Maa/89.

Thermay Ltd.—351/Bom/89.

Thermex Pvt. Ltd.—144/Bom/89.

Thermon Manufacturing Co.—6/Maa/89, 273/Maa/89.

Thermopac Ab.—628/Cal/89.

Thiagarajan, V.—96/Maa/89.

Thomas, J.—240/Maa/89.

Thompson, A.—746/Maa/89.

Thompson, J.—746/Maa/89.

Thompson, K.P.—123/Del/89.

Thompson, T.—746/Maa/89.

Thomson Consumer Electronics.—559/Cal/89, 934/Del/89.

Thomson CSF.—10/Del/89, 1063/Del/89, 1064/Del/89, 1067/Del/89.

Thorat, D.K.—21/Bom/89.

Thripathi Kishakkalamb Meenakshi Kutty.—592/Maa/89.

Thyssen Industrie Ag.—142/Bom/89.

Thyssen Stahl Ag.—509/Cal/89.

Tidwell, R.R.—866/Cal/89.

Timblo, A.—51/Bom/89.

Timex Corporation.—871/Cal/89, 1046/Cal/89.

Tinyton Appliances Pvt. Ltd.—808/Maa/89, 921/Maa/89.

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T—Contd.	—U—
Tiwarl, K.K. Dr.—328/Bom/89.	U A B Research Foundation. The—205/Mas/89.
Todel, R.F.—270/Bom/89.	UBE Industries Ltd—409/Mas/89.
Tomas, G.—334/Bom/89.	UOP, Inc.—90/Del/89, 158/Del/89, 439/Del/89, 698/Del/89, 723/Del/89, 744/Del/89, 753/Del/89, 760/Del/89, 763/Del/89, 816/Del/89, 990/Del/89, 993/Del/89, 1134/Del/89.
Tomka, I.—546/Cal/89, 920/Cal/89.	U Son Traders.—369/Del/89.
Tomoe Technical Research Co.—338/Mas/89.	UTDC Inc.—164/Del/89, 986/Del/89.
Tomsky Gosudarstvenny Universitet Imeni V.V. Kuibysheva.—192/Del/89.	Ukrainsky Institut Inzhenerov Vodonogo Khozyaistva USSR—263/Cal/89.
Torotrak (Development) Ltd.—1042/Del/89.	Unilever plc.—860/Cal/89.
Toshiba, K.K.—80/Bom/89, 246/Del/89, 289/Bom/89, 304/Del/89, 426/Del/89, 441/Del/89, 469/Del/89, 730/Del/89.	Union Carbide Canada Ltd.—785/Mas/89, 828/Mas/89, 829/Mas/89.
Toso, V.—872/Cal/89.	Union Carbide Chemicals & Plastics Co. Inc.—711/Mas/89, 730/Mas/89, 787/Mas/89, 836/Mas/89, 943/Mas/89.
Toth, J.—153/Mas/89.	Union Carbide Corporation.—12/Del/89, 327/Mas/89, 351/Mas/89, 375/Mas/89, 376/Mas/89, 478/Mas/89, 518/Mas/89, 648/Del/89, 812/Del/89.
Touillet, E.—250/Mas/89.	Union Oil Co. of California.—589/Mas/89, 925/Mas/89.
Toyo Engineering Corporation.—395/Del/89.	Union Rheinische Braunkohlen Kraftstoff Ag.—41/Del/89, 169/Del/89, 386/Del/89.
Trailer P H Corporation.—262/Mas/89.	Union Switch & Signal Inc.—301/Mas/89.
Transaction Technology, Inc.—335/Mas/89.	Uniroyal Englebert Textilecord S.A.—486/Mas/89.
Traqson Ltd.—132/Cal/89.	Uniroyal Goodrich Tire Co., The—397/Del/89.
Trivedi, K.R.—245/Bom/89.	Uniroyal Manuli Rubber Sri.—584/Mas/89.
Trivedi, R.C.—52/Bom/89.	Unisearch Ltd.—193/Mas/89, 520/Del/89.
Troszt, M.A.—763/Mas/89.	United Catalysts Inc.—81/Cal/89, 249/Cal/89.
Trustees of the Sisters of Charity of Australia.—412/Del/89.	United Parcel Service of America, Inc.—253/Cal/89, 260/Cal/89.
Trutzschler GmbH & Co. Kg.—44/Cal/89, 506/Cal/89, 507/Cal/89, 584/Cal/89, 826/Cal/89.	United States of America. The—466/Mas/89.
Tsentrally Nauchno-Issledovatel'sky I Proektno-Experimentalny Institut Promyshlennykh Zdany I Sooruzheny "Tsniipromzdany"—705/Cal/89.	United Technologies Corporation.—172/Cal/89, 677/Cal/89, 776/Cal/89, 864/Cal/89, 1027/Cal/89, 1038/Cal/89, 1039/Cal/89, 1044/Cal/89, 1045/Cal/89, 1049/Cal/89, 1061/Cal/89.
Tsaevoi Nauchno-Tekhnichesky Kooperativ "Stimer"—610/Cal/89.	Universal Network, Inc.—302/Cal/89.
Tsentrally Nauchno-Issledovatel'sky I Proektno-Experimentalny Institut Organizatsii Mekhanizatsii I Tekhni-Cheskoj Pomoashi Stroitelstvu.—362/Cal/89.	University of Medicine & Dentistry of New Jersey.—912/Cal/89.
Tube Investments of India Ltd.—390/Mas/89.	University of Melbourne, The—946/Cal/89, 1207/Del/89.
Tucker, J.M.—173/Del/89.	University of New Mexico.—224/Mas/89.
Tulshiram, I.V.—65/Bom/89.	University of Sydney, The—264/Del/89.
Tullman, R.—49/Del/89.	

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U—Contd.	V—Contd.
University of Western Australia, The—1056/Cal/89.	Videocolor,—638/Del/89.
Uvarov, N. Dr.—23/Bom/89.	Vidyasagar, P.—1070/Cal/89.
Uzemek, O.K.—637/Cal/89.	Vignon, L.—166/Del/89, 170/Del/89.
—V—	Vijayan, T.A.—76/Maa/89, 77/Maa/89, 78/Maa/89, 302/Maa/89, 400/Maa/89, 505/Maa/89.
VIP Industries Ltd.—25/Bom/89.	Vijayaraghavan, S.—538/Del/89, 539/Del/89.
VM E I "Lenine"—462/Maa/89.	Viswanathan, S.—291/Bom/89.
Vabin International s.r.l.—87/Maa/89.	Vitamins Inc.—784/Cal/89.
Vacex Ab.—1086/Del/89.	Vitalink Communications Corporation—23/Del/89.
Vadalia, N.D.—168/Bom/89, 293/Bom/89.	Vits Maschinenbau GmbH.—262/Cal/89.
Vaidya, J.G.—89/Bom/89.	Voest-Alpine Industrieanlagenbau Gesellschaft m.b.H.—866/Del/89.
Vaidyanathan, L.G.I.—213/Maa/89, 731/Maa/89, 440/Maa/89.	Voest-Alpine Maschinenbau Gesellschaft m.b.H.—57/Cal/89.
Valadares, J.A.—322/Bom/89.	Voest-Alpine Stahl Donawitz Gesellschaft m.b.H.—220/Cal/89, 435/Cal/89, 496/Cal/89.
Valinox—1055/Cal/89.	Vologodsky Politekhichesky Institut I.—568/Cal/89.
Valk, R.V.D.—681/Maa/89.	Volzhakoe Obiedinenie Po Proizvodstvu Legkovykh Avtomobillei (AVTOVAZ)—612/Del/89.
Vamatex S.P.A.—352/Maa/89, 582/Maa/89.	Vorhauer, R.A.—587/Cal/89.
Varaderaj, K.—254/Maa/89.	Vsesojuzny Nauchno-Issledovatel'sky Institut Elektro-Bytovykh Mashin Kievskogo Nauchno-Proizvodstvennogo Obiedinenia "Vesta" SSR—737/Cal/89.
Vartak, T.P.—60/Bom/89, 68/Bom/89, 69/Bom/89.	Vsesojuzny Nauchno-Issledovatel'sky Institut Elektrifikatsii Selskogo Khozyaistva.—457/Cal/89, 458/Cal/89.
Veb Industrie-Kooperation Schiffbau.—396/Cal/89.	Vsesojuzny Nauchno-Issledovatel'sky I Proektny Institut Aljuminievoy.—268/Cal/89, 322/Cal/89, 340/Cal/89, 944/Del/89, 1218/Del/89.
Veb Stahl-Und Walzwerk "Wilhelm Florin"—213/Cal/89.	Vsesojuzny Nauchno-Issledovatel'sky Proektno-Konstruktorsky I tekhnologichesky Institut Elektro Termicheskogo Oborudovania (Vniieto)—867/Cal/89.
Veitscher Magnesitwerke-Actien-Gesellschaft.—133/Cal/89, 150/Cal/89, 550/Cal/89.	Vsesojuzny Nauchno-Issledovatel'sky Institut Po Ispytaniyu Mashin I Oborudovania Dlya Zhivotnovodstva I Kormoproizvodstva.—686/Del/89.
Venkatrao, P.R.—357/Bom/89.	Vsesojuzny Nauchno-Issledovatel'sky, Proektno-Konstruktorsky I Tekhnologichesky Akkumulyatorny Institut USSR.—585/Cal/89.
Venugopal, N.P.K. Dr.—183/Maa/89.	Vsesojuzny Nauchno-Issledovatel'sky I Proektno-Konstruktorsky Institut Naftyanogo Mashinostroenia Vniiftemash.—32/Cal/89.
Vereinigte Edelstahlwerke Aktiengesellschaft (VEW),—179/Del/89.	Vsesojuzny Nauchno-Issledovatel'sky Proektno-Konstruktorsky I Tekhnologichesky Institut Vzyvozaschischennogo I Rudnichnogo Elektrooborudovania (VNIIVE)—241/Del/89.
Verma, B.K. Dr.—460/Cal/89.	
Verma, K.P.S.—878/Del/89.	
Vermont American Corporation.—191/Maa/89.	
Vertum Magas-Esmelye-Pit menyjail Kisszovatkert.—346/Bom/89.	
Vickers P.L.C.—436/Maa/89.	
Victor Co. of Japan, Ltd.—355/Cal/89, 416/Del/89, 533/Del/89, 669/Del/89.	
Victoria University of Manchester, The.—52/Maa/89.	

Name & Appln. No.	Name & Appln. No.
—W—	W—Contd.
W & T Avery Ltd.—208/Del/89.	392/Cal/89, 482/Cal/89, 483/Cal/89, 526/Cal/89, 538/Cal/89, 539/Cal/89, 540/Cal/89, 541/Cal/89, 542/Cal/89, 543/Cal/89, 548/Cal/89, 549/Cal/89, 665/Cal/89, 667/Cal/89, 668/Cal/89, 855/Cal/89, 856/Cal/89, 857/Cal/89, 858/Cal/89, 945/Cal/89, 1030/Cal/89, 1040/Cal/89.
WED Elektrotechnik GmbH.—33/Maa/89.	Westmart Hill Ltd.—1087/Del/89.
W. Haking Enterprises Ltd.—650/Cal/89, 985/Cal/89, 986/Cal/89.	Whirlpool Corporation—321/Del/89, 431/Del/89, 1073/Del/89, 1206/Del/89.
W.L. Gore & Associates, Inc.—591/Maa/89.	White, J.P.—853/Cal/89.
W.R. Grace & Co. Conn.—97/Del/89.	Widia (I) Ltd.—17/Maa/89.
Wadhwa, K.B.L.—401/Del/89.	Wilhelm Hegenscheidt Gesellschaft MbH.—648/Cal/89.
Wadhwa, N.D.—460/Del/89.	Wilkinson Sword Gesellschaft Mit Beschränkter Haftung.—619/Del/89.
Waggon Union GmbH.—173/Bom/89, 326/Bom/89, 330/Bom/89, 333/Bom/89.	Williams Hi-Tech International Pty. Ltd.—349/Del/89.
Wagh, A.S.—12/Bom/89.	William, J.L.—451/Maa/89.
Wagner, M.W. Dr.—946/Maa/89, 947/Maa/89.	Wipro Information Technology Ltd.—284/Bom/89.
Walter Becker GmbH.—397/Cal/89.	Wisconsin Alumni Research Foundation.—383/Del/89, 384/Del/89, 385/Del/89, 515/Del/89, 518/Del/89, 1072/Del/89.
Wang Laboratories Inc.—154/Maa/89.	Wolfgang Priesemuth—493/Cal/89, 630/Cal/89, 988/Cal/89.
Ward Blenkinsop & Co. Ltd.—250/Del/89.	Wolfgang, W.—323/Maa/89.
Warli, M.S.—268/Bom/89.	Worndli, G.A.—125/Cal/89.
Warner-Lambert Co.—80/Del/89, 436/Del/89, 564/Del/89.	Wyzsza Szkoła Inzynierska Im. Kazimierza Pulaskiego.—160/Cal/89.
Warren, D.W.—702/Del/89.	—X—
Watson, M.R.—1142/Del/89.	Xomox International GmbH & Co.—543/Maa/89.
Waymate Ltd.—333/Cal/89.	—Y—
Weirton Steel Corporation.—198/Maa/89.	Yadav, M.R.—194/Del/89.
Weisberg, K.—526/Del/89.	Yair, J.D.—39/Del/89.
Wellworthy Ltd.—115/Del/89.	Yamada, H.—881/Del/89.
Werkzeugmaschinenfabrik Oerlikon-Bührle Ag.—130/Del/89, 637/Del/89.	Yamatake-Honeywell Co. Ltd.—301/Cal/89, 315/Cal/89.
Wessa, T.—171/Cal/89.	Yamazaki, K.—1228/Del/89.
West & Sons (Engineering) Ltd.—516/Del/89.	Yatnalkar, B.G.—190/Bom/89.
Westinghouse Brake & Signal Holdings Ltd.—45/Del/89, 46/Del/89, 47/Del/89, 247/Del/89, 365/Del/89.	
Westinghouse Electric Corporation.—20/Cal/89, 21/Cal/89, 34/Cal/89, 35/Cal/89, 48/Cal/89, 49/Cal/89, 50/Cal/89, 106/Cal/89, 135/Cal/89, 152/Cal/89, 183/Cal/89, 200/Cal/89, 210/Cal/89, 252/Cal/89, 281/Cal/89, 324/Cal/89, 354/Cal/89, 357/Cal/89, 358/Cal/89,	

## Name &amp; Appln. No.

## Y—Contd.

Yeda Research &amp; Development Co. Ltd.—728/Cal/89.

Yokogawa Electric Corporation.—151/Cal/89, 170/Cal/89.

Yook, C.S.—287/Del/89.

Yousuf, M.—755/Del/89.

Yuly, Z.—127/Bom/89.

## —Z—

Zaklady Ohemiozne "Blachownia"—36/Cal/89.

Zeer, R.L.—1186/Del/89.

Zeman Bauelemente Produktions-gesellschaft m.b.H.—942/Del/89.

Zenith Electronics Corporation.—251/Cal/89.

Zimmenn, B.—136/Cal/89, 1013/Cal/89.

Zimpro/Passavant Inc.—369/Cal/89.

Zhemchugova, E.I.—484/Del/89.

Zurstein, H.—366/Del/89.

DESIGN CANCELLATION PROCEEDING  
SECTION 51A

## (1)

An application for cancellation of registration of design No. 161536 in Class 3 made by Crystal Plastics & Metallizing Pvt. Ltd. on 3-8-1990 in the name of Ray Plastiques Pvt. Ltd.

## (2)

An application made by The Walt Disney Co. on 17-6-1990 for the cancellation of registration of registered design No. 161513 in Class 3 in the name of Richie Rich Products.

## (3)

An application made by The Walt Disney Co. on 20-6-90 for the cancellation of registration of registered design No. 161103 in Class 3 in the name of Richie Rich Products.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration in the entry.

- Class 1. No. 162521. Tpack Industries (India) Pvt. Ltd., 415, Swastik Chamber, Sion Trombay Road, Chembur, Bombay-400071, Maharashtra, India, Indian Company. "Tower Packing Ring of Metal". September 20, 1990.
- " No. 162524. T.V. Enterprise of 52A, Mani Mahal, Shop No. 9, C.P. Tank, V.P. Road, Bombay-400004, Maharashtra, India, a proprietary concern. "Stool Seat". September 24, 1990.
- " No. 162613. Sureshkumar Ramgopal Vaid, Indian National of 8, Bhagwan Mansion, Cinema Road, Dhobi Talao, Bombay-400020, Maharashtra, India. "Fencing Component". October 30, 1990.
- " No. 162615. Amco Batteries Limited, R & D Centre Bellary Road, Byatarayanapura, Bangalore-560092, Karnataka, India. "Tail lamp for a railway carriage". October 31, 1990.
- Class 3. No. 162191 & 162192. Amity Perfumes Pvt. Ltd., Indian Company, 157-59, Narayan Dhuru Street, Bombay-400003, Maharashtra, India. "Bottle". June 12, 1990.
- " No. 162197. Sudarshan Chemical Industries Ltd., 162, Wellealey Road, Sangam Bridge, Pune-411001, Maharashtra, India, Indian Company. "Container". June 13, 1990.
- " No. 162293. Eagle Flask Industries Ltd., Indian Company, 141, Sheriff Devji St., Bombay-400003, Regd. Office: 'Eagle Estate', Talegaon-410507, Dist: Pune, Maharashtra, India. "Thermobox". July 10, 1990.
- " No. 162397. B.R. Plastics, A to Z Industrial Estate, 3rd floor, Fergusson Road, Bombay-400013, Maharashtra, India, Indian Partnership Firm. "Soap Box". August 3, 1990.
- " No. 162540. GEC Plessey Telecommunications Ltd., New Century Park, P.O. Box 53, Coventry, CV3 1HJ, England, a British Company. "Key station display" Priority date April 2, 1990 (UK).
- " No. 162541. -Do-. "Key station display" Priority date April 2, 1990 (UK).
- Class 5. No. 162193. Nirma Chemical Works at Plot No. 32, Vatva Industrial Estate, 1/2, Pharmaceutical Zone, Opp: Chokshi Tube, G.I.D.C., Vatva-382445, Gujarat, India. "Soap Packet". June 12, 1990.
- Class 10. No. 162487. Gautam Industrial Corporation, C-152, Mayapuri, Phase-II, New Delhi-110064, India, a Partnership Firm. "Hawai Chappal". September 11, 1990.
- Class 11. No. 162546. Cotex Hosiery Factory of C-6, Acme Estate, 2nd floor, Swere (E), Bombay-400015, Maharashtra, India, Indian Partnership Firm. "Under Wear (Bike)". October 4, 1990.
- Class 12. No. 162090. Arvind Goswamy, c/o. Crossby Advertising, SCO 121, Sector 8C, Chandigarh-160008, Punjab, India, Indian National. "Apron". May 11, 1990.

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Nos. 157279, 157084 &amp; 153450 ..... Class 3

Nos. 151071, 15508, 155408 ..... Class 1

No. 157085 ..... Class 5.

Nos. 154991, 157279, 156328 to 156331, 157084, 153450. .... Class 3

No. 157035 ..... Class 5

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and 151271. .... Class 1R. A. ACHARYA,  
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